## Ph.D. Entrance Test - 2014

# Subject: Ancient Indian History Culture & Archeology

## Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
CAMPAGNATA AND SOME	er Sheet Serial No	0.	
	9	Signature of the Cana	lidate
Time: 60 min	ites Number	of Ouestions: 50	Maximum Marks : 50

- 1. Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else:
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
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1.	The	Pleistocene epoch began:			
	A) C)	3 mya 1.6 mya	B) D)	2.5 n 500,0	nya 000 years ago
2.	A sn	nall primate skeleton named "L	ucy" w	as foun	d at:
	A) C)	Laetoli, Tanzania Lake Turkana, Kenya	B) D)		r, Ethiopia g, South Africa
3.	Wha	t is Resistivity Survey?			
	A) B) C) D)	Detecting magnetic anomalic Detecting electrical anomalic Detecting chemical anomalic Detecting sound anomalies i	es in th es in th	e soil	
4.	Harr	ies Matrix is:			
	A) C)	A surface survey technique An excavation technique		B) D)	A sub-surface survey technique A recording technique
5.	Who	wrote Anabasis of Alexander?			
	A) C)	Pliny Megasthenes	B) D)	Strab Arria	
6.	Wha	t are 'Sondages'?			
	A) C)	Test pits Isolated excavation pits	B) D)	1000	re excavation boxes trenches
7.	The	cultural sequence of Mehergarh	is as f	ollows:	
	A) B) C) D)	Palaeolithic to the Historical Neolithic to the Early Harap Neolithic to the Mature Hara Early Harappan to the Late I	pan pe ppan p	riod period	od
8.	Perfe	orated jars were introduced in o	ne of t	he follo	wing periods:
	A) C)	Neolithic Painted Grey ware	B) D)		re Harappan and Red ware
9.	Who	excavated the site of Dholavira	17		
	A) C)	B.B.Lal R.S.Bisht	B) D)	M.K. S.R.F	Dhavlikar Rao
10.		put forward the "Aryan Invization:	asion"	theory	for the decline of the Harappan
	A) C)	R.E.M. Wheeler W. Fairservis	B) D)	G.Da G.Sir	
11.	The	main source of chert for the Ha	rappan	civiliza	tion was:
	A) C)	Aravalli range Vindhyan range	B) D)		i Hills ri hills

12.	Bagi	hor II is located in:		
	A)	Son valley	B)	Belan valley
	C)	Ghatprabha valley	D)	Tap: valley
13.	Whi	ch of the following sites was n	ot exca	vated by R.E.M Wheeler
	A)	Brahmagiri	B)	Harappa
	C)	Arikamedu	D)	Shishupalgarh
14.	The	ancient Pushkalavati is represe	ented by	the site of:
	A)	Bhir mound	B)	Sirkap
	C)	Charsada	D)	Tepe yahya
15.	Paint	ted Grey ware was first identif	fied at :	
	A)	Alamgirpur	B)	Bhagwanpura
	C)	Hastinapur	D)	Ahichchhatra
16.	Stone	e portrait of King Ashoka was	found a	nt:
	A)	Taxila	B)	Kanaganahalli
	C)	Ropar	D)	Mathura
17.	The t	term atavika in the Arthashast	ra refer	to:
	A)	Wild savage forest tribes	B)	City dwellers
	C)	Frontier chiefs	D)	Dangerous wandering tribes
18.	Perip	olus Maris Erythraei is writter	n in:	
	A)	Greek	B)	Roman
	C)	Latin	D)	French
19.	The t	term adhavapa refers to		
	A)	Land measure	B)	Water body
	C)	Quantity of crop	D)	Sowing capacity
20.	Whic	ch of the following is suitable	for Pota	ssium Argon dating:
	A)	Burnt wood	B)	Burnt clay
	C)	Volcanic ash	D)	Burnt grain
21.	The I	Rabatak inscription was found	l in:	
	A)	Pakistan	B)	Afghanistan
	C)	Bangladesh	D)	Nepal
22.	The l	Nanaghat inscription of Nagar	nika is d	ated to the:
	A)	Ist century BCE	B)	2nd century BCE
	C)	Ist century CE	D)	2nd century CE
23.	The	first issue of <i>Epigraphica Indi</i>	ca was j	published in:
	A)	1865	B)	1888
	C)	1900	D)	1905

24.	The	Shar-i-Kuna Greek-Aramic in	scription	n is attributed to:
	A)	Heliodorus	B)	Ashoka
	C)	Kharavela	D)	Kanishka
25.	Asko	Parpola is famous for his wo	rk on:	
	A)	Cuneiform script	B)	Kharosthi script
	C)	Brahmi script	D)	Indus script
26.	The	capital of the Vatsa Kingdom	was:	
	A)	Vaishali	B)	Kaushambi
	C)	Shravasti	D)	Pataliputra
27.	Who	was the ruler of Vidisha men	tioned i	n the Besnagar Pillar Inscription?
	A)	Agnimitra	B)	Sanghabhadra
	C)	Bhanumitra	D)	Bhagabhadra
28.	The	<i>Vajrasana</i> at Bodh Gaya is att	ributed	to the:
	A)	Mauryan period	B)	Shaka period
	C)	Kushana period	D)	Gupta period
29.	The	colossal image of the Yaksha!	Manibha	ndra was found at:
	A)	Mathura	B)	Parkham
	C)	Taxila	D)	Sarnath
30.	The S	Shunga terracottas are:		
	A)	Hand made	B)	Partially hand made
	C)	Single moulded	D)	Double moulded
31.	Vesa	ra is a:		
	A)	Town	B)	Coin type
	C)	Stupa	D)	Temple style
32.	Khaj	uraho artists followed the Vas	tushastr	ic tradition of:
	A)	Mayamata	B)	Arthashastra
	C)	Agni Purana	D)	Vishvakarma school
33.	Whic	ch two caves at Ajanta are Cha	nityas	
	A)	Caves 1 and 2	B)	Caves 16 and 17
	C)	Caves 18 and 20	D)	Caves 19 and 26
34.	The l	Laxman (brick) temple of Sirp	our is loc	cated in the State of:
	A)	Jharkhand	B)	Chhattisgarh
	C)	Bihar	D)	Orissa
35.	Whic	ch of the following is the earlie	est brick	temple:
	A)	Bhitaragaon temple	B)	Maniyar Math at Rajgir
	C)	Laxman temple at Sirpur	D)	Temple number II at Sanchi

36.	The c	capital of the Pandyan Kingdor	n was:		
	A) C)	Kaveripattinam Kuravur	B) D)	Mada	urai hipuram
37.	Jetth	aka in the Jatakas refers to:			
	A) C)	The head of leather workers The head of wood workers		B) D)	The head of a craftperson's guild The head of caravan merchants
38.	Nitis	ara was composed by:			
	A) C)	Buddhagupta Kamandaka	B) D)	Bhas Ashv	a /aghosha
39.	Kshe	trika means:			
	A) C)	Owner of a field Slave	B) D)	Culti	vator of a field int
40.	Mric	hchhakatika was written by:			
	A) C)	Shudraka Bharavi	B) D)	Kalio	dasa mghosha
41.	Potir	coins were first issued by:			
	A) C)	Mauryas Guptas	B) D)	Pahl Sata	avas vahanas
42.	Coin		do-Gre	ek King	gs bears besides Greek also a Brahmi
	A) C)	Agathocles Dematrius	B) D)		machus ander
43.	The	legend 'Shriman Vyaghrabala	Parakr	amah' is	s found on the coins of:
	A) C)	Kanishka Chandragupta II	B) D)		ndragupta I argupta
44.	The	famous Buddhist monk Kumar	ajiva d	ied in:	
	A) C)	Cambodia Afghanistan	B) D)	Burn	
45.	Bude	dhaghosha is credited with auth	noring	Visuddh	nimagga which is a classic work on:
	A) C)	Mahayana doctrine Hinayana doctrine	B) D)		avada doctrine ric doctrine
46.	The	Therigatha is:			
	A) B) C) D)	Collection of poems by Buc Collection of poems by Jair Collection of poems by Jair Collection of poems by Jair	ddhist r	nonks	

47.	Naty	ashastra of Bharata is a work on:								
	A) C)		B) D)		onomy					
48.	Whic	ch of the following is not an impo	rtant	expone	ent of the Yogachara school:					
	A) C)		B) D)		bandhu irjuna					
49.	Kunc	Kundakunda was a:								
	A) Digambara Jain monk-scholar     C) Mahayana Buddhist monk-scholar		B) D)	Shvetambra Jain monk-scholar Hinayana Buddhist monk-scholar						
50.	The Bhilsa Topes (1854) by Alexander Cunningham is one of the earliest works or									
	A) C)		B) D)	Sanc	hi rjunakonda					

Question Booklet Series : A Question Booklet Sr. No. 012142

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			Sion	ature o	f the Cana	lidate			
Tr:								-	

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I.		e mid-point of a negative icity of demand is:	ly sloping s	traight-line demand cu	urve the value of price			
	A) C)	less than one equal to one	B) D)	more than one infinite	-			
2.		e price consumption curve e for the commodity is:	is horizont	al at all the relevant pr	rices, then the demand			
	A) C)	horizontal positively sloping	B) D)	vertical a rectangular hyperi	bola			
3.	At th	e shut down point of a cor	npetitive fir	m:				
	A) C)	P=MC P=AC	B) D)	P=AVC P=AFC				
4.		demand curves for a Mor acticing third degree price			al in two markets then			
	A) B) C) D)	increase both Total Rev increase Total Revenue, increase Total Profits, b neither increase Total R	but not total	al profits. Revenue.				
5.	Peak	-load pricing refers to the	charging of					
	A) B) C) D)	different prices for peak-load and off-peak load periods. different prices in different markets.						
6.	When	n interest elasticity of dem	and for mor	ney is zero, then the LI	M curve is:			
	A) B) C) D)	horizontal parallel to X- vertical parallel to Y-ax positively sloping. negatively sloping.						
7.		e Classical Model of emp us conditions, will:	oloyment, a	n increase in Money	supply, under ceteris			
	A) B) C) D)	increase the volume of e raise the price level only raise both price level an decrease the volume of	d volume o	femployment				
8.		ch of the following is not a e Keynesian Model:	responsible	for causing under emp	ployment equilibrium			
	A) B) C) D)	downward rigidity of M downward rigidity of re low interest elasticity of infinite interest elasticity	al wages investment					

9.	The point at which Phillips curve intersects the horizontal axis indicates:								
	A) C)	Natural Rate of unemployn Rate of cyclical unemployr		B) D)	Natural Rate of inflation Rate of seasonal unemployment				
10.	The	monetary policy is more effec	tive in e	xpandir	xpanding employment when Investment is:				
	A) C)	highly interest elastic highly income elastic	B) D)	Control of the Contro	y interest inelastic y income inelastic				
11.	Acco	ording to Modigliani hypothes	is consu	mption	is a function of:				
	A) C)	Current absolute income Past-peak income	B) D)		ive Income cted life-time income				
12,	In the	e Cobb-Donglas production fu	mction t	he sum	of production elasticities gives the				
	A) B) C) D)	degree of returns to scale returns to each of the variable factors contribution of technology to production degree of substitution among factors of production							
13.		e Correlation Co-efficient bet ession of Y upon X.	ween X	and Y	is 0.80, then what will be the R2 in				
	A) C)	0.40 0.80	B) D)	0.64					
14,		ch of the following regression s data on a variable:	models	s is used	to estimate growth rate from time				
	A) C)	y = a+b Time y=loga+b time	B) D)		+b log Time ra+b Time				
15.	In regression analysis Durbin-Watson test is used to detect:								
	A) C)	Multi Collinearity Auto-Correlation	B) D)	Heter	oscedasticity ality				
16.		th of the following is a measur ticular industry:	re of Ma	rket Co	ncentration and Monopoly power in				
	A) C)	Herfindhal Index Chamberlain Index	B) D)		r Index ason Index				
17.	Whic		ists has	given	an important theory of Industrial				
	A) C)	A. Marshall E.Chamberlain	B) D)		d Weber Hicks				
18.	In M	ark-up pricing the price of the	produc	t fixed b	y the seller is equal to:				
	A) B) C) D)	Cost per unit + a profit mar Variable cost per unit + a p Marginal cost + a profit ma Fixed cost per unit + a prof	rofit ma irgin per	rgin per unit					

19.	Whi	ch of the following is an ex	ample of v	vertical merger:					
	A) B) C) D)	merger of car producing and tractor producing firms     merger of cloth producing and yarn producing firms     merger of milk plant and sugar factory							
20.	The	diversification of production	on pattern o	of a firm means that it has started:					
	A) B) C) D)	operating in many different selling in many different producing the same goo producing many different	t countries d at many						
21.	The	theory of comparative cost	advantage	was first clearly stated by:					
	A) C)-	Adam Smith J.S. Mill	B) D)	David Ricardo T.R. Malthus					
22.	Find	out the correct statement o	ut of the fo	bllowing:					
23.	A) B) C) D) The G A) B)	own depreciation occurs in ca devaluation occurs in ca regime depreciation occurs in ca regime  Barter terms of trade of a ca index of export prices + volume of exports + volu- value of exports + value balance of payments on ca account degree of openness of an ec- share of exports in total of	ase of a cur case of a case of a cuntry is eq index of imports of imports capital according onomy car GDP GDP	nport prices ports  ount ÷ balance of payments on current to be measured by:					
	C) D)	<ul> <li>ratio of total external trade (Imports + Exports) to GDP</li> </ul>							
5.				najor trading partner of India:					
	A) C)	Japan Iran	B) D)	USA U.K.					
6.	Who	fixes the minimum cash re-	serve ratio	of Commercial Banks:					
	A) Ĉ)	Central Government Central Bank	B) D)	Chairman of the Bank Manager of each Bank Branch					
7.	That by:	transactions demand for n	noney is in	sterest elastic has been theoretically shown					
	A) C)	W. J. Baumol M. Friedman	B) D)	J. Tobin A. Metzler					

28.		the long run correlation be is positive and high has be			money supply and changes in price ablished by:				
	A) C)	J.M. Keynes J. Tobin	B) D)		riedman Baumol				
29.	Whic				usually used to explain inflation in				
	A) C)	structuralist theory profit-push theory	B) D)		oush theory nd-pull theory				
30.	The	real bance effect was used t	o integrate	moneta	ry and value theories by:				
	A) C)	A.C. Pigou T. Sargent	B) D)	160000000000000000000000000000000000000	riedman Patinkin				
31.		gricultural economics the c rice of:	obweb the	orem is	used to explain the fluctuations in				
	A) C)	wheat onions	B) D)	rice coars	e cereals				
32.	In which of the following Indian States, the Zamindari system of land tenure prevailed before 1947:								
	A) C)	Punjab Kerala	B) D)	Gujar Oriss					
33.	India	became self-sufficient in f	oodgrains	product	ion during the:				
	A) C)	Mid-1950's Mid-1970's	B) D)		1960's 1980's				
34.	In wi		of India p	er acre p	productivity of agriculture is the				
	A) C)	UP Kerala	B) D)	West	Bengal a				
35.	In the	In the case of sales tax on a commodity the incidence of tax will depend on:							
	A) B) C) D)	rate of tax only on its elasticity of s only on its elasticity of d both on its elasticity of s	lemand	vell as e	asticity of demand				
36.	In In	dia the power to impose ag	ricultural i	ncome t	ax is given by the constitution to:				
	A) C)	President of India Union Government	B) D)		Governments				
37.	Whi	ch of the following is not in	cluded in	the cate	gory of development expenditure:				
	A) C)	Expenditure on Education Expenditure on road-built		B) D)	Expenditure on Health Expenditure on Judiciary				

38.	Which	ch of the following is not an	essential	feature of Mercantilist Thought:						
	A)									
	B)	A strong state is necessar								
	C)	Free foreign trade is bene		#F1450.5						
	D)	Surplus of exports over i	mports is l	beneficial for the country						
39.	'Tab	leau Economique' is the wo	ork of:							
	A)	M. Turgot	B)	John Locke						
	C)	David Hume	D)	F. Quesnay						
40.	The	book popularly known as 'V	Wealth of I	Nations' is written by:						
	A)	J.S. Mill	B)	Adam Smith						
	C)	David Ricardo	D)	T.R. Malthus						
41.	Whic	ch of the following is the mo	ost often u	sed measure of economic inequality:						
	A)	Herfindhal Index	B)	Coefficient of variation						
	C)	Gini coefficient	D)	Chow Index						
42.	The a	absolute poverty in a countr	y is measu	red by:						
	A)	Head Count Ratio	B)	Gini Coefficient						
	C)	Lorenz Ratio	D)	Theil Index						
43.	As per capita real income of a country increases, the share of agriculture in GDP:									
	A)	increases		B) remains constant						
	C)	traces an inverted u-shap	ed curve	D) declines						
44.	According to Simon Kuznets the relationship between level of economic development and degree of income inequality is described by a curve that is:									
	A)	U-shaped	B)	Inverted u-shaped						
	C)	L-shaped	D)	S-shaped						
45.	Interms of Human development which of the following four Indian States is the best:									
	A)	U.P.	B)	Kerala						
	C)	Assam	D)	Orissa						
46.		high growth rate of Indian orth rate of:	economy i	n recent years has been largely due to high						
	A)	Agricultural Sector	B)	Small Scale Industry						
	C)	Large Scale Industry	D)	Services Sector						
47.		ch of the following States	is not proc	fucing adequate foodgrains to feed its own						
	A)	U.P.	B)	Haryana						
	C)	Punjab	D)	Kerala						

48.		e M4 definition of Money Supply used by Reserve Bank of India, which of the wing financial assets is not included:
	A)	currency with the public
	B) C) D)	fixed deposits in Non-Bank financial institutions saving and fixed deposits in post office Saving Banks

- 49. The SEBI has been set up by Govt. of India to regulate the functioning of:
  - A) Call Money Market
     B) Foreign Exchange Market
     C) Stock Exchanges
     D) Unorganised Money Market
- 50. In which of the following industries of India the Cooperative Sector has a significant presence:
  - A) Cement Industry B) Sugar Industry
    C) Paper Industry D) Jute Industry

# 013036

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1.	Gan	dhi got married at the age of:			
	A) C)	12 18	B) D)	13 21	
2.	Fron	n whom Gandhi learnt the firs	st lesson	of Non	-violence
	A) C)	Mother Wife	B) D)	Ram	
3.	In w	hich Law College at England,	Gandh	i got adr	mission?
	A) C)	Law College Outer Temple	B) D)		Temple tute of Legal Studies
4.	In w	hich year Gandhi ji offered h h Africa?	nis first	Satyagr	aha against the racial discrimination in
	A) C)	1906 1910	B) D)	1904 1914	
5.	Gand	lhi's Non-violence emerged fi	rom:		
	A) C)	Fear of British Governmen Moral and Soul Force	t	B) D)	Non-Possession of Arms Cowardice
6.	How	many years Gandhi spent in S	South A	frica fig	hting against the racial discrimination?
	A) C)	19 years 21 years	B) D)	20 ye 22 ye	ars
7.	Gand	hi founded his first ashram in	South	Africa in	the year:
	A) C)	1904 1910	B) D)	1906 1914	
8.	Then	name of Gandhi's elder son w	as:		
	A) C)	Laxmidas Manilal	B) D)	Harila Maga	
9.	Gand	hi reached England for the fir	st time	in:	
	A) C)	1885 1893	B) D)	1883 1888	
10.	Befor	e getting married to Kasturba	, Gandh	i got be	trothal with how many girl/s?
	A) C)	One Two	B) D)	Zero Three	
11.	The n	ame of Gandhi's sister was:			
	A) C)	Putlibai Raliatben	B) D)	Ramb Kastu	
12,	When	e did Mahatma Gandhi start h	is strug	gle agai	nst apartheid?
	A) C)	Natal Orange Free State	B) D)	Cape Trans	Colony vaal

13.	At w	hich railway station in South	Africa v	vas Gandhi thrown out of the train?						
	A)	Durban	B)	Pietermaritzburg						
	C)	Natal	D)	Transvaal						
13. 14. 15. 16. 17. 20. 21.	In 19	In 1910, Gandhi founded this ashram:								
	A)	Kochrab	B)	Phoenix						
	C)	Tolstoy	D)	Sevagram						
15.	Gand	thi started the publication of	Indian op	pinion in:						
	A)	1904	B)	1910						
	C)	1903	D)	1906						
17.		thi ji gave the call for indivi- was the first individual Saty		vagraha after the Second World War was over. iosen by Gandhi ji?						
	A)	Sardar Patel	B)	Jawaharlal Nehru						
	C)	B. R. Ambedkar	D)	Vinoba Bhave						
17.		Gandhi ji was very much fascinated by a book, which he translated into Gujarati and entitled as 'Sarvodaya'. Name of that book was:								
	A)	1998 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
	B)	Kingdom of God is within	you							
	C) D)	Hind Swaraj  An Autobiography or The	Story of	My Experiments With Truth						
F260	550.40		CANADA PARA	AND ATTEREST OF THE CONTROL OF THE C						
18.		lhi ji started his first Satyagra								
	A) C)	Ahmedabad Wardha	B) D)	Champaran Bardoli						
	127.75		0.0000							
19.		advised Gandhi ji to go ar ic comments on any issue?	ound the	e country for a year and refrain from making						
	A)	B. G. Tilak	B)	G. K. Gokhale						
	C)	M. A. Jinnah	D)	Jawaharla) Nehru						
20.	Wha	t was a 'Sin against man and	God' ac	cording to Gandhi ji?						
	A)	Alcoholism	B)	Untouchability						
	C)	Illiteracy	D)	Poverty						
21.	'Gan	dhi: A Life*, was written by:								
	A)	Louis Fischer	B)	Krishna Kripalani						
	C)	J. B. Kripalani	D)	J. J. Doke						
22.	Who	referred to Gandhi ji as 'On	e Man Pe	eace Army' during the partition period?						
	A)	Lord Mountbatten	B)	Lord Wavell						
	C)	Lord Wellington	D)	Ramsay McDonald						
23.		called the dropping of Civ mity'?	il Disobe	edience Movement by Gandhi ji as a 'National						
	A)	Jawaharlal Nehru	B)	M. N. Roy						
	C	Subhas Chander Bose	D)	C. R. Das						

24.	Whi	ch of the following expression	ns Gandl	thi ji ultimately found it more accurate?					
	A) C)	God is Truth God is Love	B) D)	God is Light Truth is God					
25.	"Wa	r is the continuation of State	Policy by	y other means" was said by:					
	A) C)	Carlyon Clause Vitz Bill Clinton	B) D)	Nelson Mandela Hitler					
26.	In w	hich year 'Rio Earth Summit'	was hel	ld?					
	A) C)	1993 1992	B) D)	2001 2000					
27.	M.A	.D. stands for:							
	A) B) C) D)	Mutual Assured Destruction Mutual Agreement for Dis Maruti Authorized Dealer Military Academy Directo	armame						
28.	To w	hom did Gandhi ji refer affec	tionately	y as 'Deshbandhu'?					
	A) C)	Jawaharlal Nehru Vinoba Bhave	B) D)	C. R. Das M. N. Roy					
29.	Socio	Society based on Justice equality and liberty is also known as:							
	A) C)	Positive Peace Absence of Communal Vic	olence	B) Provision of Human Rights D) Absence of War					
30.		hich year the 'Universal Dec ral Assembly?	laration	of Human Rights' was adopted by the Un	ited				
	A) C)	1945 1946	B) D)	1948 1947					
31.	In wh	nich year did apartheid officia	illy end?	?					
	A) C)	1994 1991	B) D)	1947 2001					
32.	The (	Gandhian concept of Peace is							
	A) C)	Holistic Peace Absence of dictatorship	B) D)	Absence of War Social and Economic Reforms					
33.	Who	referred to 30th January also	as 'Self-	-introspection Day'?					
	A) C)	Jawaharlal Nehru Vinoba Bhave	B) D)	C. R. Das M. N. Roy					
34.	Who is alv	mentioned in a meeting of C vays with us, but the question	Congress is that a	s Working Committee, "Undoubtedly Gand are we with Gandhi ji or not"?	hi ji				
	A) C)	Mahadev Desai Acharya Kripalani	B) D)	Jawaharlal Nehru Vallabh Bhai Patel					

35.	Who	prepared the trusteeship form	ula for	Gandhi to consider?						
	Mahadev Desai and Pyarelal									
	B)	J. B. Kripalani and Jayapral	cash Na	arayan						
	C)	Subhash Chander Bose and								
	D)	K. G. Mashruwala and N. D.	). Parik	h						
36.	Who	named Gandhi 'the Permanen	t Cong	ress President'?						
	A)	Jawaharlal Nehru	B)	Sarojini Naidu						
	C)	Sardar Patel	D)	M. A. Jinnah						
37.		Who said, "Gandhi ji possesses amazing inner strength which transforms ordinary people around him into brave martyrs"?								
	A)	Gopal Krishna Gokhale	B)	C. F. Andrews						
	C)	Jawaharlal Nehru	D)	Subhash Chander Bose						
38.	Whe	n was Poona Pact signed between	een Gar	ndhi and B. R. Ambedkar?						
	A)	24 September, 1932	B)	24 September, 1930						
	C)	15 August, 1932	D)	15 August, 1930						
39.	Whom was Gandhi ji referring to when he talked about his political heir at the meetin of the AICC held in Wardha on January 15, 1942?									
	A)	Sardar Vallabh Bhai Patel	B)	Rajendra Prasad						
	C)	Jawaharlal Nehru	D)	Vinoba Bhave						
40.	Wha	t is the true meaning of Sociali	sm acc	ording to Gandhi ji?						
	A)	Sarvodaya	B)	Basic Education						
	C)	Economic Equality	D)	Prohibition						
41,	Which of the following contributes the primary point of difference between Socialism of Western Conception and the Gandhian view of Socialism?									
	A)	Material Progress without violence								
	B)	Equality irrespective of the	materia	al wealth						
	C)	State ownership of all mean	s of pro	oduction without violence						
	D)	First control of the State to	be follo	wed by enforcement of equality by law						
42.	Acco	ording to Gandhi, which is the	best me	ethod of conflict resolution?						
	A)	Deterrence	B)	Suppression of Conflict						
	C)	Diplomacy	D)	Mutual Dialogue and mediation						
43.	Whie	ch one of the following is calle	d a mo	ral equivalent of war?						
	4)	Terrorism	B)	Guerilla War						
	C)	Nuclear War	D)	Satyagraha						
44.	Who	is the author of 'India's Secon	nd Free	dom*?						
	A)	Mahatma Gandhi	B)	Vinoba Bhave						
	C)	Loknayak Jayaprakash	D)	Subhash Chander Bose						

45.	Who amongst the following fought against apartheid and racism in South Africa?									
	A)	Nelson Mandela	B)	Martin Luther King (Jr.)						
	C)	Brack Obama	D)	General Smuts						
46.	Ident	ify the environment activist	:							
	A)	Ratan Tata	B)	Mukesh Ambani						
	C)	Sunderlal Bahuguna	D)	Vijay Mallya						
47.	Gano	thi started the publication of	Harijan i	n:						
	A)	1906	B)	1919						
	C)	1933	D)	1910						
48,	'Life	and Death of Mahatma Gan	dhi', was	written by:						
	A)	Louis Fischer	B)	Robert Payne						
	C)	J. B. Kripalani	D)	Jawaharial Nehru						
49.	First	book written by Gandhi was	s:							
	A)	An Autobiography or The	Story of	My Experiments with Truth						
	B)	Satyagraha in South Afric	CdS							
	C)	Hind Swaraj								
	D)	Constructive Programme								
50.	Anar	thadandavrata is treated as a	part of:							
	A)	Ecology	B)	Epitemology						
100	C)	Archaeology	D)	Sociology						

Question Booklet Series : A Question Booklet Sr. No. 014047

# Ph.D./M.Phil. Entrance Test - 2014

## Subject: Geography

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words		
O.M.R. An	swer Sheet Serial No.			
	S	ignature of the Candidate		

Time: 60 minutes

Number of Questions: 50

Maximum Marks: 50

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

1.	Which	h of the fo	llowing sta	tements	is incorrect?					
	A) B) C) D)	Miletus Anaxima	town was	a centre the word	denote south w of learning and lapeiron to syn t.	is now				
2.	Whiel	h of the fo	llowing is	correct a	bout Eratosther	es?				
	A) B) C) D)	Taproba One of h	is nicknan	kumene i nes was <i>j</i>	refers to Japan. pentathlos. cated at Syene.					
3.	Kitah	al- Ashko	d was wri	tten by						
	Δ) Δ	d- Balkhi		B) A	l Masudi	C) A	l- Maqdisi	D)A	l- Biruni	
4.	Whiel	h one of th	e followin	g project	ions maintains t	he shap	pe?			
	Λ) C)		graphic proje			B) D)	Stereographi Orthomorphi	199	ction	
5.	Find the incorrect statement.									
	A) B) C) D)	The con Cryosph	tact zone b ere is anot	etween tl her name	and upper segme the crust and the of asthenosphe anitic rock.	mantic	nantle. is called Moho	disco	ntinuity.	
6.	The tropical cyclone willy-willies strikes in :									
	A) C)	Western Australi	Atlantic a			B) D)	Western Nor India	th Pac	ific	
7.	Read	the follow	ing statem	ents						
	(i) (ii) (iii) (iv)	The poin	nt directly hter scale	above the measures	quake is called e focus on the ea the intensity of the ranges from I	arth's s the ear	urface is called rthquake.	epic	enter.	
	Ident	ify the inc	orrect stat	ements:						
	$\Lambda$ )	(i), and	(ii)	B)	(iii)	C)	(iii) and (iv)	D)	(iv)	
8.	For a	time diffe	rence of o	ne hour t	he longitudinal	distanc	e is equal to :			
	A)	15 degr	ce	B)	30 degree	C)	45 degree	D)	60 degree	
9.	Bern A)	nuda is North A	stlantic's h	igh press	ure cell	B) 1	North Atlantic's	low p	ressure cell	
	C) Indian Ocean's high pressure cell						D) Indian Ocean's low pressure cell			

10.	The t	ransport prine	ciple in C	entral Place Theory	is denoted	i by :				
	$\Lambda$ )	K 3	B)	K 4	C)	K-5	D)	K=7		
11.	Whic	ch of the follo	wing is n	of correct about P	waves in th	e context of ea	rthquak	tes?		
	A) B) C) D)	A THE RESERVE TO SERVE THE PROPERTY OF THE PARTY OF THE P	te to and of travel t	fro along the direct hrough liquids.	ion of prop	pagation.				
12.	Whic	h of the follo	wing is n	ot a type of resolut	ion					
	$\Delta$ )	Spatial	B)	Radiometric	C)	Temporal	D)	Visible		
13.	The	standard atmo	spheric p	ressure at sea is						
	A)	900 mb	B)	1000 mb	C)	1013 mb	D)	1023 mb		
14.	Wha	t is true from	the follow	wing statements abo	out Immar	uel Kant:				
	A) B) C) D)	He is fame	ous for the	philosopher. concept of spatial ological idea of final the world.			ique of	Pure reaso		
15.	Which one of the following is incorrect about volcanoes:									
	A) B) C) D)	Shield vol Mount Ra	canoes ar	olcanoes formed over formed from flui olcanic peak, s one that has not e	d basaltic l	avas,		te volcanoe		
16.	Thru	Thrust fault is formed when:								
	A) B) C) D)	the angle of tensional s	of a fault party	plane in a compress plane in a compress all crustal rocks apost ck move laterally	sion fault is					
17.	Which of the following is incorrect about weathering:									
	A) B) C) D)	Frost action Hydrolysis	n is an ex	ring is also called parample of mechanic tue to biological wo nical process.	cal weather					
18.	Day	is called the n	nost pron	inent not yet crode	d remnants	ş as:				
	A) C)	peneplain pediplaine	s		B) mon Ben	adnocks n				
19.	Occa	asionally, two	or more	sinkholes join to b	ecome a la	ger depression	called	:		
	Δ)	uvala	B)	perched acquife	r (C)	tower D)	SWI	llow hole		

).	On th	ne Fahrenheit se	cale, wa	ater boils at:						
	Δ)	100 degree I				B)	212 de	egree F		
	C)	32 degree F				D)	-273,5	degree	e F	
	In wh	nich mountain 1	range is	the Khyber p	ass locate	d:				
	$\Lambda$ )	Kirthar	B)	Hindukush		C)	Dhaul	adhar	D)	Sulaiman
	Whic	h of the follow	ing par	ts of a beach p	orofile wi	ll be far	thest sea	award?		
	$\Lambda$ )	Backshore	B)	Fc eshore		C)	Nears	hore	D)	Berm
	Reve	rse fault is an e	xample	of:						
	A)	Compression	nal fault			B)	Tensi	onal fac	ult	
	C)	Transverse f	ault			D)	Trans	form fa	ult	
Į.	Whic	h of the follow	ing is in	ncon :ct:						
	$\Lambda$ )	Thunderstorn	ms are o	comi ion in bo	th the lov	v and n	niddle la	titudes.	85	
	13)	The life cycl	c of a th	nund :rstorm b	egins wit	h the o	nset of t	he conv	ection	process.
	C)	Cumulonimb	ous clou	ds a c produ	ced in the	mature	stage.			
	10)	Orographic p	orecipita	ation is due to	thunders	torms.				
Q.	Whic	h of the follow	ing is n	ot a planetary	wind:					
	$\Lambda$ )	Trade wind	B)	V esterlies	C)	Polar	winds	D)	Mon	soon
5,	Whic	h of the follow	ing is i	ncor ectly ma	tched?					
	Λ)	Kudremukh		Kar	nataka					
	B)	Bailadila		: Cha	attisgarh					
	C)	Kurnool		: Tar	nil Nadu					
	D)	Panna		: Ma	dhya Pra	desh				
7.	Whic	ch of the follow	ring are	true reg ardin	g Jhum c	altivatio	on in Ind	lia:		
	1.	It is largely	practice	d in Nor h ca	st India					
	11.	It is referred	to as si	ash and turn	technique	2				
	III.	In it, the fert	ility is	exhausted in i	lew years					
	Λ)	I, II and III	В)	II and I. !		C)	1	D)	I an	d III

28.		h of the follow the largest to th	100	notes the correct lest?	t order	of states in ten	ms of s	ize of popu
	$\Lambda$ )	Uttar Pradesl	n, Maha	rashtra, West B	engal,	Bihar		
	B)	Uttar Pradesl	n, Maha	arashtra, Bihar,	West B	engal		
	C)	Maharashtra,	Uttar I	Pradesh, Bihar,	West B	engal		
	D)	Uttar Pradesl	ı, Bihar	, Maharashtra,	West B	engal		
29.	The l	neadquarters of	NATM	O is located at				
	$\Delta$ )	Hyderabad	B)	Kolkata	C)	Dehradun	D)	Pune
30.	1-orm	lines are a type	of:					
	$\Lambda$ )	Contours	B)	Hachures	C)	Spot height	D)	Bench m
31.	Whic	h of the follow	ing is a	n example of m	casures	of central loca	tions:	
	$\Lambda$ )	Mean	B)	Median	C)	Mode	D)	Mean cer
32.	Whic	h of the follow	ing is a	technique of cr	op com	binations:		
	$\Lambda$ )	Weaver's	B)	Von Thunen'	s C)	Weber's	D)	Christall
33.	Whic	h of the follow	ing trib	es is the largest	in num	erical strength:		
	A)	Bhil	B)	Santhal	C)	Gonds	D)	Meena
34.	How	many satellites	are mi	nimum requirer	nents to	get 3 D inform	nation t	hrough GP:
	$\Lambda$ )	2	B)	3	C)	4	D)	5
35.	PSL	V C-23 was use	d to lac	inch				
	Λ)	SPOT-7	B)	LANDSAT	C)	Quickbird	D)	Cartosat
36.	White	h of the follow	ing is r	ot a scale of me	easuren	nent:		
	$\Delta$ )	Nominal	B)	Ordinal	C)	Graphic	D)	Interval
37.	Who	n was the latest	Map P	olicy of India a	nnounc	ed?		
	A)	2005	В)	2006	C)	2007	D)	2004
38.	Whi	ch one of the fo	llowing	g is commonly k	nown a	is step migratio	m:	
	A)	Rural to urb	an migr	ration	B)	Urban to urb	an mig	ration
	C)	Rural to rura	ıl migra	ation	D)	Urban to rur	al migr	ation
39.		scheduled tribe idia:	popula	ation in 2011 ce	ensus w	as per ce	nt of th	ne total pop
	Al	8.7	33)	8.4	(C)	8.02	D)	8.6

40.	Mate	h the followir	ug.								
		Places			S	tate					
	i)	Riasi		a.	. 0	disha					
	ii)	Koraput		b	. ^	ssam					
	iii)	Dighoi			V	est Bengal	est Bengal				
	ív)	Asansol		d	, JI	harkhand					
				e.	J	ammu & Kash	mir				
		(i)	(ii)	(i	ii)	(iv)					
	$\Lambda$ )	ė	a	b		d					
	B)	d	a	b		c					
	C)	e.	a	b		c					
	D)	c	c	b		a					
41.	In wh	nich year, the	Indian St	lates were re	corgani	zed on the bas	is of languag	ge:			
	$\Lambda$ )	1947	B)	1952	C	) 1956	D)	1961			
42.	Whic	th of the follow	wing is n	ot a GIS pa	ckage:						
	$\Lambda)$	Arc GIS	B)	Mapinfo	C	) Idrisi	D)	Netscape			
43.	In wh	nich state of In	idia is A	ngul, the lar	gest alu	minium plant	in Asia loca	ited:			
	$\Lambda$ )	Gujarat	B)	Jharkhan	d C	) Odisha	D)	Chhattisgarh			
44.	What	is <b>not</b> true ab	out Chil	d sex ratio a	s per 2	011 census in	India?				
	A)	Chhattisgar	h has the	highest chi	ld sex t	ratio.					
	B)	Haryana has the lowest child sex ratio.									
	C)	Kerala has the highest and Punjab the lowest child sex ratio.									
	D)	The child so	ex ratio i	n India was	919.						
45.	The highest level of decision making body in India is:										
	Δ)	Planning co	mmissic	n	В	) Inter-sta	ate Council				
	C)	National De	evelopm	ent Council	E	Prime N	Ainister				
46.	Which of the following is an example of Command Area Development:										
	Α)	Indira Gand	dhi canal		13	) Damod	ar Valley Co	Valley Corporation			
	C)	Bhakra Nar	ngal Proj	ect	E	) Western	n Ghats Deve	elopment			

Read the following statement about urbanization in India:

47.

	1.	The p	proport	ion o	f urban	populatio	n in f	ive union terri	itories a	nd two states is
		above 50 per cent.								
	2.	The highest proportion of urban population after Goa and Mizoram was recorded								
		in Kerala.								
	3.	The density of population, for defining an urban centre is 400 persons per sq. km								
		besides other criteria.								
	4.	The least urbanized state in India after Himachal Pradesh is Bihar.								
	Which	of the	above:	stater	nents is/	are incom	ect?			
	$\Lambda$ )	2, 3		B)	3,4		C)	2 only	D)	4 only
48.	Match the following									
		Satellites					Laune	ch year		
			i)	Lar	ndsat		a)	1972		
			ii)	SP			b)	1986		
			iii)	IRS	5		c)	1988		
				i)	ii)	iii)				
		A)		a)	b)	c)				
		B)		b)	a)	c)				
		C)		c)	a)	b)				
		D)		c)	b)	a)				
49.	Which of the following is a method of slope analysis:									
	A)	King's	8)	B)	Raisz a	nd Henry	C	) Mercator's	D)	Strahler's
50.	The Kelvin degree is identical in size to the Celsius degree except that water freezes a									
	273 de	273 degree Kelvin and boils at:								
	$\Lambda$ )	100 do	egree K				B)	373 degree K		
	C)	122 4	egree K				D)	73 degree K	6	

## Ph.D./M.Phil. Entrance Test - 2014

Subject: History

## Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Answ	er Sheet Serial No	0.	
		Signature of the Cana	lidate
Time: 60 min	utes Number	of Questions: 50	Maximum Marks : 50

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- 5. Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- 6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- 7. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- If you want to change an already marked answer, erase the shade in the darkened bubble completely.
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#### 1074

## EACH QUESTION CARRIES 1 MARK. THERE IS NO NEGATIVE MARKING

- 1. The term 'agrahara' in ancient times refered to:
  - A. Store for weapon
  - B. royal donation of village or land to Brahmins
  - C. agricultural implement
  - D. royal residence
- 2. Dvija means:
  - A.twice born
  - B.customary dues
  - C.ruler
  - D. chakravartin
- 3.Eripatti is specified land from which:
  - A. Ruler takes all revenues
  - B. travellers are maintained
  - C. revenues are used for irrigation tanks
  - D. Brahmanas are maintained
- 4. Mandalam, nadu, taniyur and kurram are :
  - A. administrative units
  - B. merchant guilds
  - C. artisan groups
  - D. state officials
- 5. Yavana in Indian sources refers to people of:

- A. north west region
- B. Malabar coast
- C. western Asia
- D. Europe
- 6. The Aranyakas were:
  - A. Vedic texts composed by forest hermits
  - B. customs officers
  - C. officers of the state
  - D. Texts for rituals of coronation
- 7. Kharoshti was the :
  - A. script in north west India derived from Aramaic
  - B. texts describing sacrifice
  - C. royal storehouses
  - D. revenue from a village or land donated to Brahmins
- 8. Kahapana and Kakani were:
  - A. sages in the time of Asoka
  - B. types of coins
  - C. authors of ancient texts
  - D. types of cloth
  - 9. Nanadeshi refers to:
    - A. artisans of the locality
      - B.rulers in south India

C.	a	powerful	merchant	guild
----	---	----------	----------	-------

- D. cultivators from the vicinity
- 10.A political theory where in a state of anarchy the strong devour the weak is:
  - A. mandala
  - B. Mahakshatrapa
  - C. Mimamsa
  - D. Matsyanyaya
- 11 Yoga, Mimamsa, Vedanta refer to:
  - A. some of the major schools of philosophy in ancient India
  - B. texts of the Mauryan period
  - C. asanas
  - D. scholars of the Vedic time
  - 12. Watan jagir meant :
    - A. hereditary lands
    - B. gift of Mughal emperor
    - C. jagir for special services
    - D. land assigned for sustenance
  - 13. Which of the following was NOT part of the administrative units in the early 19<sup>th</sup> century Punjab:
    - A. sarkar
    - B. tappa
    - C. suba

- D. mauza
- 14.The term 'dal khalsa' refered to:
  - A. a group of soldiers
  - B. combined forces of the Sikhs
  - C. additional troops
  - D.langar given to the Sikhs.
- 15. Jagir was a:
  - A. personal property
  - B. assignment of land in lieu of salary
  - C. customary land
  - D. movable property
- 16. Masand was a person :
  - A. appointed by the Guru to look after the affaires of the local congregation
  - B. collecting taxes imposed on Sikhs
  - C. who collected taxes for the state
  - D. to mediate between the state and the Sikhs.
- 17. Panchayat refers to:
  - A. a local assembly of the representatives of a caste or brotherhood
  - B. a government official
  - C. additional tax on some groups
  - D. any five specified items
- 18. Qanungo may be defined as:

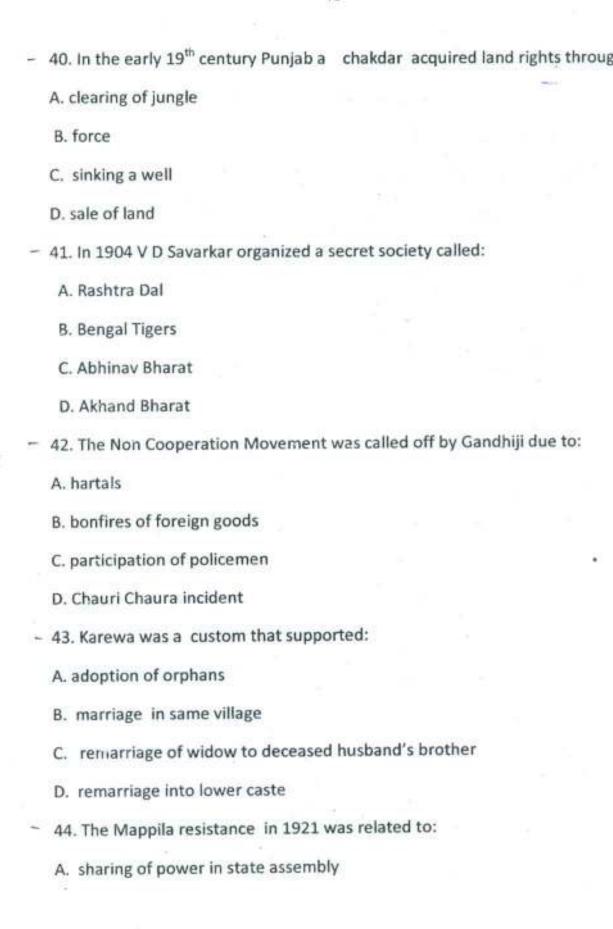
- A. a special category of zamindars
- B. state officers
- C. cultivating persons
- D.heriditary keepers of revenue records at the pargana level
- 19. Sangat refered to the :
  - A. people of a village
  - B. fixed number of revenue payments
  - C. assembly or congregation of Sikhs
  - D. revenue official
  - 20. Batai was a method of assessment based on:
    - A. cash per fixed unit area
    - B. estimate of crop
    - C. crop sharing
    - D. forced collection of revenue
  - 21.' zimmi ' meant:
    - A. chiefs
    - B. code of conduct for Muslims
    - C. additional taxes to state
    - D. non Muslims who paid jiziya
  - 22. Tabligh refers to:
    - A. disciples of the Prophet
    - B. propagation of Islam

- C. special military of the ruler
- D. Ceremonial sword
- 23. Khanqah was the:
  - A. establishment of Sufi shaikh
  - B. resting place of Emperor
  - C. residence of administrator
  - D. office of the local governor
- 24. Sitala was:
  - A. the goddess of small pox
  - B. the royal tanks
  - C. a sacred pool
  - D. head of the temple
- 25. Gurmata means:
  - A. decision of Sikh congregation in presence of the Granth Sahib
  - B. order of Guru's family
  - C. the mother of the Guru
  - D. decision of a select group of Sikh leaders
- 26. Silsilah meant a:
  - A. official order of the ruler
  - B. tomb
  - C. checkpost
  - D. Sufi order

	27. Khutba was a:
	A. pronouncement made in Friday mosques regarding the ruler of the day
	B. religious text
	C. state document
	D. ceremonial food
	28. Ulama refers to :
	A.a caste group
	B. learned in Islamic theology and law
	C. medical men
	D. Ruler's close aide
	29. Bigha refers to :
	A. a kind of tobacco
	B. a skilled worker
	C. measure of land area
	D. hunter of lions
	30. Land out of which jagirs were assigned by the Mughals was called:
	A. zor talab
	B. sarkar
	C. khalisa
	D. paibaqi
-	31. Ganj was a market for:
	A. special manufactures

- B. food grains
- C. animals
- D. local produce
- 32. Damdupat was a rule which specified that:
  - A. raw material advances be given to artisans
  - B commissions be fixed to agents
  - C. custom duties were halved
  - D. a debtor was not liable to pay interest exceeding the principal
- 33.'Rangrez or rangari' was a term used for the person who:
  - A. made tools for weaving cloth
  - B. stretched and measured cloth
  - C. did zardozi work
  - D. dyed cloth in different colours
- 34.Jamabandi was a settlement:
  - A. between revenue collectors
  - B. of the amount of revenue assessed upon an estate
  - C. of three cultivators
  - D. of collective revenue
- 35. Taccavi was a loan given to:
  - A. pay taxes
  - B. cultivators for productive purposes
  - C. travel to sacred site

- D. merchants as advance for goods
- 36. The Punjab Land Alienation Act 1900 laid down that:
  - A. land could only be sold to agricultural castes
  - B. bonded labour was permitted
  - C. no land could be sold
  - D. only government could buy land
  - 37. Ham Hindu Nahin was written by:
  - A. Lala Lajpat Rai
  - B. Sardar Sardul Singh
  - C. Giani Zail Singh
  - D. Bhai Kahan Singh Nabha
  - 38. Shuddhi was a:
  - A. purification ceremony of the Arya Samaj
  - B. religious ritual of the higher castes
  - C. personal ritual
  - D. ritual after conducting death ceremonies
  - 39. The colonial authorities devised the Colonization Bill of 1906 because it:
  - A. transferred ownership to peasants
  - B. deait with problems of revenue collection
  - C. tackled corruption
  - D. retained government ownership of land in canal colonies



- B. grievances of tenants
- C. increase in custom duties
- D. imposition of property tax
- 45. The 'Pakistan Resolution' was passed at:
  - A. Delhi in 1939
  - B. Shimla in 1937
  - C. Lahore in 1940
  - D. Calcutta in 1944
- 46. The Phulmoni Das case of 1890 was related to the issue of:
  - A. widow remarriage
  - B. age of consent
  - C. female infanticide
  - D. sati
- 47. The denomination of 'anna' meant:
  - A. 1/50<sup>th</sup> of a rupee
  - B. 1/20th of a rupee
  - C. 1/16<sup>th</sup> of a rupee
  - D. 1/2 a rupee
- 48. The Anand Marriage Bill was meant to:
  - A. give legal recognition to the Sikh ceremony of marriage
  - B. make inter caste marriages legal
  - C. fix the age for legal marriage

- D. allow for marriages without consent of parents
- 49. The Rakabganj issue was related to:
  - A. control of SGPC over the gurdwara
  - B. demolition of the outer wall of the gurdwara
  - C. takeover of the gurdwara
  - D. selection of new management
- 50. The daily of the Akali Dal was called:
  - A. Roznamcha
  - B.Vir Pratap
  - C. Akali
  - D. Jathedar

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### Ph.D. Entrance Test – 2014

# Subject: Mass Communication

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Answe	r Sheet Serial No.		
		Signature of the Cana	lidate
Time: 60 minu	tes Number	of Questions: 50	Maximum Marks: 50

- 1. Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
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1.	Whic	th of the following is not a gra	aphic or	diagram	matic representation?		
	A) C)	Pie chart Scatter plot	B) D)	Table Ogive	-		
2.	Shan	non and Weaver are associate	d with v	which cor	mmunication theory/model?		
	A) C)	Uses and Gratifications The Diffusion of Innovations 77	C. C	B) D)	Spiral of Silence Model Mathematical Model		
3.	'Con	trol Group' is a term used in					
	A) C)	Case Study Historical Research		B) D)	Survey Lab Experiment		
4.	Whic	th media advisor authored the	book, "	The Acci	dental Prime Minister'?		
	A) C)	Ashok Tandon Harish Khare		B) D)	Sanjaya Baru H.K. Dua		
5.	Wha	t is the name of the TV show	hosted b	y the Ed	itor-in-Chief of The Indian Express?		
	A) B)	We the People Walk the Talk	B) D)	Aapki To the	Adalat Point		
6.	Under which segment of the marketing mix does advertising and public relations fall?						
	A) C)	Product Place	B) D)	Price Promo	otion		
7.	Inductive logic proceeds from						
	A) C)	Particular to general General to particular	B) D)		ular to particular al to general		
8.	Mean	n, median, mode are					
	A) C)	Measures of dispersion Methods of sampling	B) D)		ares of central tendency of the above		
9.	Wha	tsApp was recently bought by	the fou	inder of			
	A) C)	Twitter Google	B) D)	Faceb Yahoo			
10.	Gonz	zo Journalism was a term first	used to	describe	the work of		
	A) C)	Benjamin Day William Randolf Hearst	B) D)		er S. Thompson h Pulitzer		

11.	Whic	ch data collection tool lends its	self mor	e easily to qualitative analysis?				
	A) C)	Structured questionnaire Structured observation	B) D)	Lab experiments In depth Interview				
12.	Artic	le 19 of the United Nations U	niversal	Declaration of Human Rights is to do with				
	A)	Gender Equality	B)	Life and Liberty				
	C)	Speech and Expression	D)	Food Security				
13.	"A social fact is a meaning and value laden statement", is a statement associated with which school of thought							
	A)	Reflexive school	B)	Deterministic school				
	C)	Positivist school	D)	Naturalistic school				
14.	Whic	ch of the following methods fa	lls unde	er probability sampling procedure?				
	A)	Purposive sampling	B)	Volunteer sampling				
	C)	Simple random sampling	D)	Convenience sampling				
15.	One	of the following search engine	s is exc	lusively meant for science information				
	A)	Google	B)	SCIRUS				
	C)	Yahoo	D)	Alta Vista				
16.	Questionnaire is a							
	A)	Research method	B)	Data analysis technique				
	C)	Data collection tool	D)	None of the above				
17.	Whe	n two variables either increase	or deci	rease together, it is referred to as				
	A)	Positive correlation	B)	Negative correlation				
	C)	Standard deviation	D)	Variance				
18.	94.3	My FM is owned by						
	A)	Reliance Anil Dhirubhai Ambani Group						
	B)	B) Entertainment Network (India)						
	C)	Living Media India	1002					
	D)	Synergy Media Entertainm	ent					
19.	Kelia	ability is synonymous with						
	A)	Consistency	B)	Validity				
	C)	Believability	D)	None of the above				

20.	An a	ppropriate source to find out	descripti	tive information is	
	A) C)	Dictionary Directory	B) D)	Bibliography Encyclopedia —	
21.		itle of a film documentary on thored. The title was	Noam (	Chomsky was taken from one of the books h	e
	A) C)	Idea Diffusion Manufacturing Consent	B) D)	Cognitive Dissonance Mind Matters	
22.	Quar	kXPress is a software primari	ly used	for designing	
	A) C)	Newspapers Display Advertisements	B) D)	Websites Flex banners	
23.	Scalar	Chain was one of the manag	ement p	principles propounded by	
	A) C)	Rosabeth Moss Kanter Henri Fayol	B) D)	Peter Drucker Gary Becker	
24.	A) B) C) D)	The defendant is guilty There is correlation in the p There is no difference betw None of the above	populati	27.5	
25.	Whic	th of the following is characte	ristic of	f qualitative research	
	A) C)	Generalising to the popular Unique case orientation	tion	B) Random sampling     D) Standardised tests and measures	
26.	A	is a subset of a			
	A) C)	Sample, population Statistic, parameter	B) D)	Population, sample Parameter, statistic	
27.	Whic	th television actress has recen	tly been	n inducted into Modi's cabinet?	
	A) C)	Nia Sharma Ankita Lokhande	B) D)	Smriti Irani Saakshi Tanwar	
28.	The s		ition, the	ne validity of which remains to be tested',	
	A) C)	Variable Construct	B) D)	Concept Hypothesis	
29.	The	study of different respondents	sharing	g a particular life event is referred to as a	
	A) C)	Cohort study Cross sectional study	B) D)	Trend study Panel study	

30.	The	current chairperson of the U	niversity (	Grants Commission is			
	A)	Yashpal	B)	Ved Prakash			
	C)	Sukhdeo Thorat	D)	HariPratapGautam			
31.	As a	general rule, researchers te	nd to use _	percent confidence intervals.			
	A)	99%	B)	95%			
	C)	50%	D)	None of the above			
32.	P. Sa	inath is associated with wh	ich newspa	aper?			
	A)	The Hindu	B)	Hindustan Times			
	C)	The Times of India	D)	The Indian Express			
33.	Ama	zon founder Jeff Bezos bou	ght which	newspaper in 2013?			
	A)	The Boston Globe	B)	The Washington Post			
	C)	The Guardian	D)	The New York Times			
34.	Whi	ich of the following is usual	lly a charac	cteristic of quantitative research			
	A)	Design flexibility	B)	Dynamic systems			
	C)	Naturalistic inquiry	D)	Deductive logic			
35.	The s	The statement of purpose in a research study should					
	A)	A) Identify the design of the study					
	B)	B) Identify the intent or objective of the study					
	C)	Specify the type of people to be used in the study					
	D)	D) Describe the study					
36.	Arun	Aruna Roy is associated with the genesis of which Act?					
	A)	A) The Delivery of Books and Newspapers (Public Libraries) Act					
	B)	B) The Press (Objectionable Matters) Act					
	C)						
	D)	The Indian Press (Emerg	ency) Act				
37.	Who	is the current CEO of Prass	ar Bharti?				
	A)	Arun Bhatnagar	B)	Deepak Sandhu			
	C)	Jawhar Sircar	D)	Mrinal Pande			
38.	"Saty	yam Shivam Sundaram' is t	he slogan o	of			
	A)	IBN 7	B)	Doordarshan			
	C)	India TV	D)	AajTak			

39.	Who	is not from the advertising	industry?			
	A) C)	Prahlad Kakkar Vir Sanghvi	B) D)		oon Joshi ue Padamsee	-
40.	o sen	h section of the Information ding offensive, misleading ree or a communication de	g, intimida	ogy Ac	t deals with punis ssages/emails by	shment for the offence means of a computer
	A)	Section 7 A	B)	Secti	on 66 A	
	C)	Section 52 A	D)	Secti	on 67 A	
41.	Whic	h level of measurement do	es not have	e a num	erical significance	e?
	A)	Nominal level of measu	rement	B)	Ordinal level o	f measurement
	C)	Interval level of measure	ement	D)	Ratio level of 1	neasurement
42.	Sourc	es of researchable problem	ns can incl	ude	4,0	
	A)	Researchers' own exper	iences	B)	Practical issues	that require solutions
	C)	Theory and past research		D)	All of the abov	e
43.	The '	Goodness of Fit' test is als	so referred	to as		
	A)	Pearsons R		B)	Chi Square	
	C)	Spearman's rho		D)	Kendall's tau	
44.	The I	nformation and Broadcast	ing Ministe	er in UP	A-II was	
	A)	Manish Tewari		B)	Ambika Soni	
	C)	Kapil Sibal		D)	Milind Deora	
45.		th of the principles given bionnaire	elow shoul	ld not b	e considered whil	e constructing a
	A)	Avoid leading questions	3			
	B)	Avoid double-barreled	questions			
	C)	Avoid double negatives				
	D)	Avoid using multiple its				
46.	*Abk	tibaarModisarkar' was a te				
	A)	O&M	B)		IO Square iffusion DY&R	
	C)	JWT	D)			
47.	The	equivalent of the ASCI for	the public	relation	as industry is the	
	A)	PRSI	B)	CBI		
	C)	PCI	D)	TRA	П	

48.	Which one is not a part of Semiotic Analysis					
	A) C)	Pragmatics Semantics	B) D)	Syntactics Cybernetics	-	
49.	Saks	hat is a development project is	n the sec	ctor of		
	A) C)	Education Health	B) D)	Commerce Agriculture		
50.	The use of multiple observers to crosscheck observations to make sure the investigate agree with about what took place is known as					
	A) C)	Interpretative validity Multiple operationalism	B) D)	Researcher bias Investigator triangu	lation	

### Ph.D./M.Phil. Entrance Test - 2014

Subject : Political Science

### Paper-I

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B)

D)

Michael Foucault

Karl Popper

Who is the author of 'The Origins of Totalitarianism'?

Herbert Marcuse

Hannah Arendt

1.

C)

2.	'A sp	ectre is haunting Europe'. W	hich boo	ok begins with this line?			
	A)	The Manifesto of the Communist Party					
	B)	One Dimensional Man		, TT - E			
	C)	The Philosophy of Right					
	D)	Political Liberalism					
3.	The F	luman Development Reports	are bro	ight out by which agency?			
	A)	The World Bank	B)	International Monetary Fund			
	C)	OXFAM	D)	UNDP			
4.	Which	h of the following statements	misrepr	resents neo-liberalism?			
	A)	Neo-liberalism has been ar	ticulated	through privatization.			
	B)	Neo-liberalism has been ar	ticulated	through fiscal austerity.			
	C)	Neo-liberalism has not perc		지하실 전 1.1는 1.1는 1.1는 1.1는 1.1는 1.1는 1.1는 1.			
	D)	그가 그 그는 그는 그리고 얼마나 아이 얼마나 내 전에 이렇게 되면 아이들이 얼마나 되었다면 하는데 모든데 없었습니다. 이렇게 되었다면 하다면 하다면 하다면 하다면 하다면 하다면 하다면 하다면 하다면 하					
5.	Which	nich of the following misrepresents the concept of 'Balance of Power'					
	A)	One or more states' power or group of states	being t	ised to balance that of another state			
	B)	Any ratio of power capabilities between states and alliances					
	C)	Counter balancing coalitions repeatedly formed in history to prevent one state from becoming predominant					
	D)	Using international law and international organizations to balance the power of another state or group of states.					
6.		n of the following staten mony?	nents a	ccurately explains the notion of			
	A)	international system that it	can sing	ate of a preponderance of power in the deletant design that the rules and all political and economic relations			
	B)	power in international syst	em that	oup of states of a preponderance of they can jointly dominate the rules ernational political and economic			
	C)	preponderance of power in	n interna	up of international organizations of ational system that they can dictate which international political and			
	D)	None of the above					

7.	Whic	ch of the following statem d Systems Theory?	ents mis	represents Immanuel Wallerstein's				
	A) B) C) D)	Existing disciplinary bour World-systems analysis is	daries in a sub-di	e are the basic unit of social analysis social sciences do not make sense - vision of social sciences for 500 years does prove it will last				
8.	Liber	ral pluralist view of constitut	ion do no	ot believe in the following				
	A) B) C) D)	authoritative allocation of policies and decisions, capability of society to articulate their interests uniformity of interests in society None of the above						
9.	Robe	ert Putnam's work on social of	capital is	with reference to which country?				
	A) C)	Germany France	B) D)	Italy United Kingdom				
10.	Whic	ch of the following is exclusi	vely a co	mmittee of the lower house				
	A) B) C) D)	Committee on Public Und Committee on Delegated Estimates Committee Committee on Assurances	Legislatio					
11.	Who	moved the objectives resolu	tion in th	e Constituent Assembly?				
	A) B)	B R Ambedkar SardarVallabhai Patel	B) D)	Jawaharlal Nehru Rajendra Prasad				
12.	The	The institution of Lokayukta was created for the first time by the state of						
	A) C)	Punjab Orissa	B) D)	Bihar Maharashtra				
13.	Who	wrote "Annihilation of Cast	e?"					
	A) C)	M K Gandhi Kanshi Ram	B) D)	B R Ambedkar Ram Manohar Lohia				
14.	Who characterized Indian Union as "federation with a centralizing tendency"							
	A) C)	Ambedkar Granville Austin	B) D)	K.C.Wheare Ivor Jennings				
15.	The l	Election Commission of Indi	a has					
	A) C)	Quasi- Judicial Power Advisory Power	B) D)	Constitutional Power Regulatory Power				
16.		among the following moote oped to carry out its promises		a that India was a 'soft state' and ill-				
	A)	Samir Amin Andre Gundar Frank	B)	Gunnar Myrdal Edward Said				

17.	Who made the distinction between negative and positive liberty						
	A) C)	Jeremy Bentham Isaiah Berlin	B) D)	J.S. Mill T.H.Green			
18.	Whic	h of the following is not a fe	minist th	eorist			
	A) C)	Simon De Beauvoir Wollen Croft	B) D)	Germaine Greer Hannah Arendt			
19.	What	is the mane of Lucian Pye's	work on	political culture			
	A) B) C) D)	Civic culture Politics, Personality and N Democracy and Trust None of the above.	lation Bu	ilding			
20.	Kyml	icka's theory of citizenship i	s based o	n			
	A) B) C) D)	Culturally differentiated ri One person one vote Weightage in voting for th The philosophy of Uniform	e minori				
21.	Whom among the following was not a Chief Minister of a State in India?						
	A) C)	K Karunakaran Jagivan Ram	B) D)	Devi Lal A R Antulay			
22.	From where did the modern state emerge						
	A) C)	Asia Europe	B) D)	Latin America America			
23.	Who propagated the idea of cultural revolution?						
	A) C)	Lenin Marx	B) D)	Stalin Mao-Tse Tung			
24,	Which of the following amendments curbed political defection						
	A) C)	42 <sup>nd</sup> 70 <sup>th</sup>	B) D)	52 <sup>nd</sup> 62 <sup>nd</sup>			
25.	Who is the author of 'Political Economy of Development in India'?						
	A) C)	Sudipta Kaviraj Hamza Alavi	B) D)	Amartya Sen Pranab Bardhan			
26.	The main base of BSP is in:						
	A) C)	Punjab Haryana	B) D)	Delhi Uttar Pradesh			
27.	Wha	t method does Rawls adopt to	o arrive a	t his theory of justice?			
	A) C)	Historical Materialism Social contract	B) D)	Felicific calculus Dialectics			
28.	Whi	ch two thinkers does Karl Po	pper call	the enemies of open society?			
	A) C)	Plato and Marx Locke and Aristotle	B) D)	Hobbes and Mill Tocqueville and Augustine			

29.	Benth	am was a proponent of	which th	eary of	Frights?
	A) C)	Natural rights Divine Rights		B) D)	Legal Rights None of the above
30.	Follov Const	ving Articles was inc ituent Assembly for the	corporat promot	ed in ion of i	the Constitution of India by the nternational peace and security?
	A) B)	Article 51 Article 44		B) D)	Article 39 Article 265
31.	In 199	4 GATT negotiations w	vere aim	ed at	
	A) B) C) D)	Free Trade Zero tariffs on import Inter-state exchange of Imposing of economic	f tariff		
32.	Before	e 1994, the European U	nion wa	s know	n as
	A) C)	OSCE ECSC		B) D)	EAPCC EC(European community)
33.	The is	sue of Kyoto Conference	ce was r	elated t	o
	A) C)	Terrorism Climatic Change		B) D)	Prohibition of nuclear tests  None of the above.
34.	An ea	sing of tension between	the stat	es can	be termed as
	A) C)	Delegation Demarche		B) D)	Declaration Détente
35.	Who	wrote the book, How Es	arope ur	iderdev	eloped Africa
	A) B)	Walter Rodney Ricardo	B)	Alvir D)	Hansen Schumpeter
36.		h school of thought bel opment?	ieved th	nat capi	tal formation was the basic feature of
	A) C)	Neo-Classical Theory Economic Maturity T		B) D)	Classical Theory Entrepreneur Theory
37.	Whic	h theorist of nationalism	n has wr	itten th	e book 'Imagined Communities'
	A) C)	Anthony Smith Benedict Anderson	B)	Eme D)	st Gellner Paul Brass
38.	Whic	h of the following is a r	neorealis	st theor	ists of International Relations.
	A) C)	Kenneth Waltz James Rosenau	B) D)		s Morgenthau neth Boulding
39.	Whic	th of the following is a	iepende	ncy the	orists?
	A) C)	Adam Smith Samuel Huntington		B) D)	Immanuel Wallerstein Andre Gunder Frank
40.		has coined the term 'o		s Syste	m' to explain the party system in the
	A) C)	Atul Kohli Paul Brass		B) D)	Myron Weiner Rajani Kothari

41.	Crite	rion for a regional party to b	e recogni	zed as a national party is					
	A) B) C) D)	To be recognized in at lea To be recognized in at lea To get I/10th of the seats i To get I/10th of the seats i	st 4 state in Lok Sa	sbha					
42.	Chri	stianity looked at 'time' as							
	A) C)	Cyclical Repetitive	B) D)	Linear static					
43.	The term new politics means								
	A) C)	New style of activism New regimes	B) D)	New parties New leaders					
44.	Robe	ert Putnam's study on politica	al culture	is based on which country					
	A) C)	Germany Brazil	B) D)	Poland Italy					
45.	What	t was key concern of Bhoods	n or Gra	mdan movement					
	A) B) C) D)	provide land to the tillers provide accomodation to to to eleminate the possibility to bring about social record	y of viler	t revolutin					
46.	The judicial review in the Indian Constitution is based on								
	A) B) C) D)	Procedure established by li Due process of law Rule of law Precedents and convention							
47.	Pressure group is distinct from a political party in as much as it does not directly								
	A) C)	Contest election Contest elections	B) D)	Finance a candidate Resort to mobilization of opinion					
48.		ch one of the following I mment?	Prime M	finisters did not head a minority					
	A) C)	I.K.Gujral Chandrasekhar	B) D)	V.P.Singh Morarji Desai					
49.	Birsa	Munda was associated with	tribal st	ruggle of					
	A) C)	North East Region Nagar Division	B) D)	Jharkhand Deccan					
50.	The	Non-Governmental Organiza	tions are	known as					
	A) C)	state actors regimes	B) D)	non-state actors social service organisations					

Question Booklet Series : A Question Booklet Sr. No. 018116

### Ph.D. Entrance Test - 2014

Subject: Psychology

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet

Roll No.	In Figure	In Words	
O.M.R. Answe	er Sheet Serial No	. []]]	
		Signature of the Cana	lidate
Time: 60 minu	tes Number	of Questions: 50	Maximum Maula , 50

- 1. Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test,
- 5. Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- 6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- 7. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- 8. If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final,
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

1.		experimenter who incorrectly rejects the wing kinds of error?	null hyp	oothesis commits which of the					
	A) C)	A systematic error A Type I error	B) D)	A random error A Type II error					
2.		terms "purposive behaviorism" and "sign ging theory developed by which of the follow							
	A) C)	John B. Watson Edward C. Tolman	B) D)	Clark Hull B.F. Skinner					
3.	Object	ct relations therapy is most closely related to	9						
	A) C)	cognitive-behavioral techniques client-centered therapy	B) D)	psychoanalysis modeling					
4,	behav respo	In an experiment, a pigeon was rewarded every twenty seconds regardless of the pigeon's behavior. By the end of the experiment, the frequency of the pigeon's grooming responses had significantly increased. Which of the following phenomena describes this result?							
	A) C)	Generalization Discrimination	B) D)	Superstitious behavior Classical conditioning					
5.	Prosopagnosia results in an inability to								
	A) B) C) D)	identifycolors distinguish parallel lines detect movement detect individual differences among faces	à						
6,	In the studies by Stanley Milgram and his colleagues, which of the following factors tended to elicit a relatively low level of obedience?								
	A) B) C) D)	The study used randomly selected partici The study was conducted in a university The "learn er" (victim) presumably re An authority figure (experimenter) in and "teacher" (participant).	laborator eceived a	slight shock.					
7.	Whic	Which of the following is an example of recognition testing?							
	A) B) C) D)	"Is this word one of the words I showed "What did you have for lunch yesterday" "What is the state capital of karnataka?" "On the list I showed you earlier, which	?"						
8.	of vo	A 40-item vocabulary test was administered to a group of students. A second, similar test of vocabulary terms was administered to this same group of students approximately one week later. The researcher reported that the correlation between these two tests was r= .90. Which of the following can be stated regarding the two tests?							
	A) C)	They have strong reliability. They have strong divergent validity.		They have weak reliability. hey have weak content validity.					

36	differ	rent degrees of attitude strength, but the dis s remains undetermined. Given what is kno erties of	tance b	between any two adjacent scale			
	A) C)	a ratio scale a multidimensional scale	B) D)	a nominal scale an ordinal scale			
10,	The	influence of expectation on perception is an ex	xample	of which of the following?			
	A) C)	Top-down processing Linear perspective	B) D)	Weber's law Interposition			
11.	comp	arketing company rewards associates with plete. Which of the following schedules of gement?					
	A)	Fixed interval	B)	Fixed ratio			
	C)	Variable interval	D)	Variable ratio			
12.	test f	searcher needs an equal number of participal for developmental differences. Which of the for to use if results are to be generalizable?	nts from	n each of several age-groups to g sampling procedures would be			
	A) C)	Simple random sampling Non-random sampling	B) D)	Stratified random sampling Simple convenience sampling			
13.	Enco	ding of new memories is most likely to be dis	srupted	by damage to the			
	A) C)	left frontal lobe hypothalamus	B) D)	hippocampus corpus callosum			
14.	Implementation of a double-blind procedure would be most difficult in studying the behavioral effects of which of the following?						
	A) C)	A new antidepressant medication Transient magnetic fields	1.00	ubliminal perception audiotapes sychotherapy			
15.	On Tuesday, Sam had fish for dinner. On Wednesday, he did not think about Tuesday's dinner at all. On Thursday, he thought about how good the fish had tasted on Tuesday. On Wednesday, therefore, Sam's memory of Tuesday's dinner was represented in						
	A) C)	short-term memory procedural memory	B) D)	episodic memory sensory memory			
16.	repo	Participants were presented with a list of 24 names. The list was composed of 12 famous women and 12 men who were less well known. Upon later testing, the participants reported that there were more women on the list than men. This finding demonstrates which of the following?					
	A) C)	The alignment heuristic Effects of gender stereotypes on memory	B) D)	The availability heuristic The representativeness heuristic			

17.		Which of the following best describes intellectual changes that typically occur in older people?							
	A) B) C) D)	Strategies for problem solving become Divergent thinking increases and conservated intelligence remains stab Ability to memorize meaningful in increases.	vergent think le or increas	cing decreases. es slightly.					
18.		ording to most cognitive therapists, psyciated with which of the following?	ychological	problems are most likely to be					
	A) C)	Unconscious conflictual beliefs Inflexible maladaptive thoughts	B) D)	Low intelligence Incomplete schema formation					
19.	Acco	ording to Erik Erikson's theory, the proce	ess of develo	pment occurs					
	A) B) C) D)	b) throughout life in a series of psychosocial stages     as a consequence of biological maturation							
20.	When psychology first emerged as a separate discipline, it was distinguished from philosophy primarily by its emphasis on								
	A) C)	skepticism deductive logic	B) D)	materialism empirical data					
21.	Which of the following concepts would create the most cognitive dissonance for a person with strong just-world beliefs?								
	A) C)	An uninvolved bystander A convicted felon	B) D)	A hard-working winner An innocent victim					
22.	Which of the following personality tests is derived mainly from the personality theory developed by Carl Jung?								
	A) B) C) D)	Myers-Briggs Type Indicator (MBTI) Sixteen Personality Factor Questionn Minnesota Multi-phasic Personality In Bem Sex-Role Inventory (BSRI)	aire (16PF)	MMPI-2)					
23.	While a board of directors was attempting to make a major decision, all members felt pressure to support the group's views and to reject ideas that were contrary to the opinions of the group. This example best illustrates								
	A) C)	group polarization groupthink	B) D)	group cohesiveness social facilitation					
24.		ch of the following depth cues would te an impression of depth in a flat paintin		useful to an artist attempting to					
	A) C)	Accommodation Interposition	B) D)	Linear perspective Breadth in the visual field					

25.	Research on problem solving indicates that heuristic search strategies, compared with algorithmic strategies, are							
	A) C)	slower more exhaustive	B) D)	more efficient more accurate				
26.		rding to the drive-reduction theory of the follow			a			
	A)	Monkeys exert substantial effort to wooden board.	puzzle out ho	w to open latches attached to	a			
	B) C)	Drug addicts require ever increasing Laboratory animals will seek out sa value.			al			
	D)	Mice will learn to negotiate a maze value.	in order to ob	tain a substance with nutrition	al			
27.		perant conditioning (or instrumental conse is to	onditioning), th	ne procedure for extinction of	a			
	A) B) C) D)	present the conditioned stimulus wi present the unconditioned stimulus withhold all reinforcements after re- provide a prolonged period of time	without the cor sponses	nditioned stimulus				
28.	she re	adied all Tuesday morning for her ge ead a novel that took place in South A ing, she complained that reading the raphy she had studied in the morning tem?	merica. When novel made he	X sat down to take her test the r forget most of the facts about	at ut			
	A) C)	Retroactive interference Small working memory	B) D)	Proactive interference Semantic priming				
29.	force	Beginning in the late 1950s and early 1960s, cognitive psychology became a powerful force within the field of psychology. Which of the following was a factor that helped in those years to spur this "Cognitive Revolution" forward?						
	A) B) C) D)	An emphasis on directly-observable, rather than inferred, mechanisms     Meta-analysis of gender comparisons						
30.	Beca	n he heard a child screaming, Phillip use they looked calm and unconcern and did not go help the child. This is	ed, Phillip dec	what other people were doing ided that nothing needed to be	g. ie			
	A) C)	the actor-observer effect pluralistic ignorance	B) D)	the false-consensus effect social loafing				
31.		ch of the following theorists proposes ort as the ways people cope with anxie		, avoidance, and seeking soci	al			
	A) C)	Sigmund Freud Erich Fromm	B) D)	Carl Jung Karen Horney				

		9747		
32.	char	gitudinal and cross-sectional research designs ages as a function of age. A disadvantage of cr be influenced by		
	A) C)	random assignment socioeconomic status	B) D)	participant attrition cohort differences
33.	The	auditory and vestibular systems are alike in tha	t bot	th
	A) B) C) D)	are vital to the sense of hearing respond slowly to the proximal stimulus provide us with information about the same depend on hair cells to transduce the proxim		
34.	Whi	ch of the following is the correct sequence of st	ages	s of test development?
	A) B) C) D)	Test conceptualization, test construction, test Test conceptualization, test construction, test Test conceptualization, test tryout, construct Test construction, test conceptualization, test	t try	out, revision, item analysis revision, item analysis
35:		argument that psychology should be an objectionsciousness serve no useful purpose was made		
	A) C)	Carl G. Jung Jean Piaget	B) D)	John B. Watson William James
36.		arch has revealed that the trait most associatuals is	iateo	d with heart attacks in Type A
	A) C)	engaging in high-risk behavior lack of sleep	B) D)	lack of exercise hostility toward others
37.	Phen	ylketonuria (PKU), cystic fibrosis, and Tay-Sa	chs:	all result from
	A) C)	recessive genetic disorders abnormalities in the number of chromosome		dominant genetic disorders     X-linked disorders
38.	expe	fordon Allport's taxonomy of traits, some rienced as a "ruling passion" and dominate vior. In Allport's taxonomy, such a trait is known	25 M	nost aspects of that individual's
	A) C)	cardinal constitutional	B) D)	common secondary
39.	perc	gine the population a researcher is studying co- ent urbanites. Which of the following metho ch is also 53 percent ruralites and 47 percent urb	nds i	is appropriate to select a sample
	A) C)	Survey Method Simple Random Sampling		Stratified Random Sampling Multi-Stage Sampling
40.	Whi	ch of the following survey designs is the mo-	st ap	propriate to collect opinion from
	A) C)	2 2 22 1	B)	West of Branch of Carlotte

41.	In a	study invest	igating eff	ects of drugs	s on perfo	rmance	, the	control g	roup shoul	d be
	A) C)	Low dose Performan		ore and after	intake of d	lrugs	B) D)		gs at all lose of Dru	gs
42.		ntative solut igh testing is		research pro	blem whi	ich ren	ains t	entative 1	till it is up	held
	A) C)	Theory Hypothesi	5			B) D)	Law	riment		
43.	Whi	ch of the folk	owing is co	nsidered as a	major lim	itation	of Na	turalistic (	Observation	1
	A) B) C) D)	It cannot i	dentify dyr s redundan	r in real life s samics of obs t information ed behavior i	erved beh					
44.		statistical tec ences is calle		t pools result	s from a la	arge nu	mber	of earlier	studies to	draw
	A) C)	Hypotheti Trend ana	cal Analys lysis	is		B) D)		ey Design -analysis		
45.		ch of the acteristics	following	correlation	indicates	stron	g rela	ationship	between	two
	A)	0.82	B)	+ 0.75	C)	0.00		D)	+0.80	
46.	Whi	ch of the foll	owing best	describes a d	louble blin	d exper	riment	al proced	ure	
	B) I C) A D) I	all subjects go laif the sub- experimenter. Il the subject laif the subject to known to to	jects get o ts are expos ects get the	experimental sed to control experimenta	treatment procedure	25.				
47.	The	conditions t	hat a resea	archer wishes	s to preve	nt fron				t are
	A) C)	Constants Extraneou	ıs Variable	s		B) D)		pendent Va endent Va		
48.	One	of the essent	ial characte	eristics of a s	cientific m	ethod i			25	
	A) C)		Reasoning d Observat			B)		uctive Reallytical Re		
49.	Whi	ch one of the	following	significance	levels is m	ost rigo	orous			
	A)	.05	B)	.02	C)	.01		D)	.005	
50.	Whi	ich one of the	following	is the most r	igorous ty	pe of v	alidity			
	A)	Face	B)	Split Half	C)	Cont	ent	D)	Predictive	

Question Booklet Series : A Question Booklet Sr. No. 019016

## Ph.D./M.Phil. Entrance Test - 2014

Subject: Philosophy

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words			
O.M.R. Answ	er Sheet Serial N	o. [ ] ] ]			
		Signature of the Cana	lidate		
Time: 60 min	utes Number	of Questions: 50	Maximum Marks: 50		

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
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- Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
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# 

1.	Rtac	denotes						
	A) C)	Permanency of the world eternity of the absolute	B) D)		order of the world ality of living beings			
2.	The	synonym of Brahma is						
	A) C)	Rtasyaygopa Hiranyagarbha	B) D)	hariv None	amsa of the above			
3.	Triva	arga indicates						
	A) C)	moksha dharma and artha kamaartha and dharma	B) D)	1,777,777	ma kama and moksha artha and moksha			
4.	Neti-	neti negates						
	A) C)	All descriptions about Brah the reality of this world	nman	B) D)	the Brahman the reality of atman			
5.	A su	bstance according to Jaina is p	ossesse	d of				
	A) B) C) D)	Changing essential characte Unchanging essential chara- Only unchanging essential of Only unchanging modes	cters an	d chang				
6.	According to Jaina the essential characteristic of soul is							
	A) C)	consciousness meditation		B) D)	thinking intuition			
7.	Anek	cantavada means						
	A) C)	manyness of god manyness of individuality		B) D)	manyness of reality manyness of thing			
8.	dvad				of suffering which is known as expresses the causation theory of			
	A)	Satkaryavada		B)	asatkaryavada			
	C)	vivartavada		D)	Pratitsamutpadvada			
9.	Gano	dhi believes that ahimsa does n	ot simp	ly mean	non-killing, it implies			
	A) C)	Conquest of anger and pride absolute truthfulness	3	B) D)	non- cooperation none of the above			
10.	The	philosophy of was a cla	ssical fe	orm of o	bjective idealism.			
	A) C)	Plato Descartes		B) D)	Aristotle None of the above			

11.		epistemology ofective idealism	and	_	became the classical expression of			
	A)	Berkeley, Kant		B)	Berkeley, Hume			
	C)	Hume, Spinoza		D)	Hume and Kant			
12.		ording to Plato learning of id	eas is reall					
	A)	Thought		B)	recollection			
	C)	experience		D)	dream			
13.	Acco	and the second of	horses are	not	substances, they are mere copies of			
	A)	Plato		B)	Aristotle			
	C)	Spinoza		D)	Berkeley			
14.	Aris	totle's theory of universal is	called					
	A)	Realism		B)	Nominalism			
	C)	Nominalistic realism		D)	Realistic Nominalism			
15.		ch kind of argument to prove dea of perfect God implies h			of God shows that the very essence of			
	A) C)	Ontological argument Causal argument		B) D)	Cosmological argument Teleological argument			
16.	3373	ording to St. Augustine, the s	unreme en	83.00				
10.			apreme en					
	A) C)	No pleasure no pain Happiness		B) D)	An ascetic life Devotion			
17.	The	100	&		became the classical expression of			
	A)	Berkeley, Kant		B)	Berkeley, Hume			
	C)	Hume, Spinoza		D)	None of these			
18.	admits a "two world' concept, the world of imitations & the world of							
	A)	Aristotle, perfect entities.		B)	Plato, perfect entities.			
	C)	Plato, practical objects.		D)	None of above			
19.	To h	ave the concept is to have in	mind the		of the object.			
	A)	Primary qualities		B)	Defining Characteristics			
	C)	Real Characteristics		D)	A A SA TANAN TANAN TANAN TANAN			
20.	the o	The scientific interpretation of the term 'individual' as a member of society rests on the conception of man as a biosocial being whose essence is the aggregate of social relations. This view is given by						
	A)	Plato		B)	Aristotle			
	C)	Marx		D)	Berkeley			

21.	prior	to our birth in this world, in			oncepts from a previous existence, ived them directly.
	A) C)	Plato Descartes	B) D)	Aris Berk	totle
22.	By s	ubstance, in the primary sens	se, Aristo	tle mea	ns that which is
	A) B) C) D)	predicable of a subject, present in a subject, both predicable of a subject neither predicable of a su	ect & pres bject nor	ent in a	subject. in a subject.
23.	Whie	ch of the following sciences	is a part o	of aesth	etics.
	A) C)	Theoria Techne	B) D)	Prox Logi	
24.	Arist	otle's work on logic is know	n as		
	A) C)	Theoria Proxis	B) D)	Orga Tech	
25.	Aris	totle's theory of 'universal'	is called		
	A) C)	Realism Nominalistic Realism	B) D)	2.53555	inalism istic Nominalism
26.	The	Ontological argument was cr	riticized b	y	
	A) C)	Descartes Spinoza	B) D)	Lebr Kant	
27.	Whil sayin	e giving the proof for the ig the same thing as	existence	of Go	od, Descartes imagined that he was
	A) C)	Plato Aristotle	B) D)	Aqui	
28.		idea of God is an original e If, according to Descartes.	ndowmer	nt, it is	as as the idea of
	A) C)	Innate Mental	B) D)		irical e of these
29.	Acco	ording to Spinoza, substance	& modes	are rela	ated in such a way that
	A) B) C) D)	substance is most basic modes are most basic to s substance& modes are tw they are mutually depende	o indepen	ident th	ings
30.	The	perception of external object	s is terme	d	, that of internal phenomena is
		)))(i))			
	A) C)	sensation, thinking Representation, reflection		B) D)	sensation, reflection None of the above

31.	The t	The two attributes i.e. thought & extension correspond to two classes of							
	A) C)	Qualities Modes	B) D)	Substances None of these	-				
32.	The	monads are	and everything is	potential or implicit in	it.				
	A) C)	Very strong Windowless	B) D)	Active None of these					
33.	Lock	e suggests that the underseption inscribes its character	tanding is like a	piece of	on which				
	A) C)	White paper Metal	B) D)	Stone None of these					
34.	Berk	eley thinks the objective from without.	ideas are impr	essed upon finite sp	irits by the				
	A) C)	Infinite spirit Physical objects	B) D)	Mind None of the above					
35.	Clas	sical subjective idealism is r	epresented by Ber	keley, Hume &					
	A) C)	Kant Fichte	B) D)	Spinoza Augustine					
36.	The	sensation of one colour diffe	ers from another c	olour due to the	if it.				
	A) C)	Difference Objective nature	B) D)	Opposition None of these					
37.	Berk	celey is							
	A) C)	Idealist Pragmatist	B) D)	Realist None					
38.	In the	ne philosophy of nature	Prefer	s the teleological to the	mechanical				
	A) C)	Locke Spinoza	B) D)	Berkeley Hume					
39.	Who	o among the following wester	ern philosophers a	ttempted to refute "Mat	ter"?				
	A) C)	Kant Locke	B) D)	Berkeley Hume					
40.	"Su	bstance is a product of huma	nn imagination" is	said by	****				
	A) C)	Descartes Locke	B) D)	Spinoza Hume					

41.	Acce	ording to Kant, moral duty is							
	A) C)	the command of God the imperative of pure reason.	B) D)	given by one's intuition determined by majority.					
42.	Kant	's rationalism is opposed to							
	A) C)	Empiricism. Neo-Platonism	B) D)	Hedonism None of the above					
43.		ording to Kant, Knowledge begins ends in	with sense, p	proceeds thence to					
	A) C)	Understanding, reason. Noumena, phenomena	B) D)	Reason, understanding None of the above.					
44.	The	key motion of Hegel is							
	A) C)	The world Geist	B) D)	Idea None					
45.		among the following criticized ality'?	Christianity	as 'slaves' revolt' and as 'slave					
	A) C)	Sartre Nietzsche	B) D)	Russell Moore					
46.	Nietzsche, Spengler, Bergson are the exponents of								
	A) C)	Nominalism Realism	B) D)	Pragmatism None of these					
47.	Phenomenology is an investigation of phenomena and it deals with only but not the								
	A) C)	Universals, Particulars Quality, Quantity	B) D)	Particulars, Universals Quantity, Quality					
48.		ch of the following theories works e pseudo concepts of metaphysics	to make the	foundations of the science to rid it					
	A) C)	Pragmatism Logical positivism	B) D)	Idealism None of the above					
49.		proposition" Means any ures which can express what may b							
	A) C)	Carnap Russell	B) D)	Frege None of these					
50.									
	A)	Moore	B)	Russell					
	C)	Frege	D)	None of these					

Question Booklet Sr. No.020066 Question Booklet Series : A

## Ph.D./M.Phil. Entrance Test - 2014

### Subject: Public Administration

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. An	swer Sheet Serial N	0.	
		Signature of the Cand	lidate
Times 60 m	inutes Number	of Questions: 50	Maximum Marks: 50

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- 5. Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheef with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- 6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- 7. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Ouestion Booklet.
- 8. If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

la i	Public	Adminis	tration					
	A) B) C) D)	is a coo covers a is not pa	perative group eff ill three branches art of political pro	of govern	ment.	g community services.		
2	Which of the following activities are not covered in 'POSDCORB'?							
	A) C)	budgetii Control	A. (200 )	B) D)	Control of	onnel administration cy making		
3.	Perspe	ective" b	n of two books - y Frank Marini, led to a new trend	and "Pul	blic Ad	www.Public Administration The Minnow dministration in a Time of Turbulence distration called"	brook a" by	
	A) C)		oment Administra Building	tion	B) D)	New Public Administration Managerial Revolution		
1.	Which	n of the fo	ollowing is a true	statement	about s	staff agencies?		
	A) B) C) D)	they are	nd outside the ma an expansion of a a help or reinforce hree above	the person		strative heirachy f the chief executive		
5.	Which	h of the fo	ollowing can creat	e barriers	in com	imunication?		
	A) C)	mechan	ical problems I problems	B) D)	organ	nizational problems the three above		
6.	Accor	rding to G	ulick the bases of	departme	entaliza	ation are:		
		nction	2. Office	3. P		4. Purpose		
	A) C)	1, 3 and	are correct I 4 are correct	B) D)	1 and	4 are correct d 2 are correct		
7.	"Coordination is the first principle of organization," said:							
	A) C)	Mooney	277	B) D)	M.P.	on P. Foilet		
8.	The concept of the zone of indifference is associated with:							
	A) C)	Decisio Author	n-making ity	B) D)		dership tivation		
9.	Who	has analy	sed leadership in	terms of c	ircular	response?		
	A) C)	C.I. Ba M.P. F	ollett	B) D)	Mill			
10.	Simo	on propose	ed a new concept	of admini	stration	based on the methodology of:		
	A) C)	Decisio	on-making I positivism	B) D)	Bou	unded rationality isficing		

11.	An i	An informal organization:							
	1. 2. 3. 4.	Maintains cohesiveness in a Dilute the formal communic Dehumanizes the formal org Enforces formal authority.	cation :	system.	zation.				
	A) C)	1, 2 are correct 1, 4 are correct	B) D)		are correct				
12.	Acce	ording to Human Relations Sch	ool;						
	1, 2, 3, 4,	Specialization leads to effici Satisfaction of social needs Informal leaders are influent Work group has no role in s	in wor tial in :	k contex setting g	roup norms.				
	A)	1 and 2 are correct	B)		4 are correct				
	C)	2 and 3 are correct	D)	1, 2,	4 are correct				
13.	Whie	ch of the following are the tene	ts of 'r	einventi	ng government' (Osborne and Gaeb				
	1. 2. 3. 4.	Government should serve ra Government should be rule of Government should be decer Government should be mark	driven ntralize	rather tl ed.					
	A) C)	1, 2 are correct 1, 3 are correct	B) D)	1000	re correct				
14.	A mi	nister is accountable to parliam	ent:						
	1. 3.	for his own actions, for his civil servants actions,		2. 4.	for lack of action, for his party's policies.				
	A) C)	1, 2 are correct 1, 2, 3 are correct	B) D)	50000000	re correct				
15.	- 12 miles	dia the courts do not interfere v							
	1, 2, 3, 4,	unless it is ultravires in rega	rd to it ion fai al right	s scope Is to fol s.					
	A)	1, 2, 3 are correct	B)	3, 4 a	re correct				
	C)	1, 3, 4 are correct	D)	All a	re correct				
16.	Whic	th of the following factors must	be co	nsidered	I while making decisions?				
	1. 3.	Legal limitations Nature of programme	2. 4.	Futur Staff	e as anticipated				
	A) C)	1, 2, 3 are correct 1, 3, 4 are correct	B) D)		4 are correct re correct				

17.	Consider the following statements: In 1991 British Prime Minister John Major launched the Citizen's Charter whose main themes were:								
	1. Off	icial secrecy	2. CI	noice	3. No	on-discrimination	4. Accessibility		
	A) C)	1, 2, 3 are cor Only 1 is corr		ě.	B) D)	2, 3, 4 are correct Only 3 is correct			
18.	As in	USA and UK t	he Indi	an civil	servant	s are prohibited:			
	<ol> <li>From becoming a member of a political party.</li> <li>From acting as an election agent.</li> <li>From casting vote in bye-elections.</li> <li>From forming or joining associations.</li> </ol>								
	A) C)	1, 2 are corre 1, 2, 3 are cor			B) D)	3, 4 are correct All are correct			
19.	Civil	Servants							
	1, 2. 3. 4.	perform quas perform quas advise the po are accountab	i-legisl litical e	ative fur executive	e on po	licy matters.			
	A)	1, 2, 3 are cor	rrect		B)	1, 2, 4 are correct			
	C)	2, 3, 4 are con	rrect		D)	All are correct			
20.	Direc	t recruitment of	person	nnel					
	1. is	democratic	2. is	equitab	le	3. is just 4. i	s discriminatory		
	A) C)	1, 2, 3 are co 2, 3, 4 are co			B) D)	1, 2, 4 are correct All are correct			
21.	What are the objectives of training the civil servants?								
	1. 2. 3. 4.	To prepare the To provide a To prepare the To prepare the	narrow em for	view o	f admir respons	istration. ibilities.			
	A) C)	1, 2, 4 are co 1, 3 are corre			B) D)	1, 2, 3, 4 are correct 2, 4 are correct	et		
22.	"Pro	notion":							
	1. 2. 3. 4.	is appointme involves cha involves a de is accompani	nge of	duties to in respo	a more	ion to a given position e difficult type of wor y.	n. rk.		
	A) C)	1, 2 are corre			B) D)	2, 3 are correct 2, 4 are correct			
23.	Univ	ersally recogniz	zed une	thical a	ctivities	s are:			
		ribery	2. g			<ol><li>patronage</li></ol>	<ol> <li>Influence peddling</li> </ol>		
	A) C)	1, 2, 3 are co 2, 3, 4 are co			B) D)	All are correct 1, 2 are correct			

24.	Cons	ider the following statements on P	ublic	Ассои	nts Con	mittee:		
	1. 2. 3. 4.	It consists of members from bot It is an annually elected body. It is elected on the basis of singl It is headed by an elected chairn	le tra	155			_	
	A) C)	1, 2, 3 are correct B; 1, 3 are correct D	P		are correc			
25.	Cons	ider the following statements:						
		Budget						
	1. 3.	is a tool of accountability is an instrument of economic po	olicy	2. 4.		ol of manag litical exerc		
	A) C)	1, 2, 4 are correct B 1, 2, 3 are correct D	5.		are corr			
26.	If a v	acancy occurs in the office of The	Pres	ident, th	e new j	president n	just be elec	ted w
	A) C)	60 days By six months D		90 days				
27.	Whic	h of the following is a correct state	emen	t regard	ing the	Prime Min	ister?	
	A) B) C) D)	he chooses the ministers, allocated disagree with him. he is a link between the Presider he is the leader of Parliament an all the three above	nt and	d the Ca	binet			resig
28.	Whic	h of the following is the oldest tex	t on	public a	dminist	tration?		
	A) C)	Arthashastra B The Politics D		The Pr Mahab				
29.		formal channel of official commun the state administration is:	nicati	on betw	een a S	ecretary to	the Govern	nmen
	A) C)	Secretary to the Chief-Minister Chief Secretary		B) D)	Govern	nor of the S ary to the d	State epartment	conce
30.		handles the work relating to	the o	drafting	of the	rules of	business	of th
	A) C)	office of the Speaker of the Lok Prime Minister's office	Sab	ha	B) D)	Cabinet S Ministry o	ecretariat of Parliame	ntary
31.	The I	Rajya Sabha in India consists of						
	A) C)	238 members B 254 members D	200		embers embers			
32.	If the	office of the Governor falls vacar	nt suc	ddenly v	vho suc	ceeds him!	f.	
	A) B) C) D)	Chief Justice of the High Court No one Chief Minister Speaker of the State Assembly		at State				

33.	Whic	ch one is the simplest but most	useful	measure	of central tendency?	
	A) C)	Median Mode	B) D)		metic Mean of the above	
34.	Whic	ch of the following is not a star	tutory c	orporati	on:	
	A) C)	Industrial Finance Corporat Ordinance Factory	ion	B) D)	LIC UTI	
35.	Close	ed economy is that economy is	n which			
	A) C)	Only export takes place Deficit financing takes place	e	B) D)	Money supply is fully controlled Neither export nor import takes pla	ace
36.	The a	apex organization of industrial	finance	in Indi	a is:	
	A) C)	IDBI ICICI	B) D)	RBI IFCI		
37.	The	nationalization of major comm	ercial b	anks too	ok place in:	
	A) C)	1947 1969	B) D)	1956 1980		
38,	may			700 CO. C.	hayats and endow them with such punits of self-government. This pro	
	A) C)	Part I of the Constitution Part III of the constitution		B) D)	Part IV-A of the Constitution Part IV of the Constitution	
39.	Which of the following was a Committee on district planning?					3
	A) C)	[1] [2] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1		B) D)	Diwakar Committee Santhanam Committee	
40.	In 19	77, under whose chairmanship	Panch	ayati Ra	j Committee was formed?	
	A) C)	Ashok Mehta Sardar Swaran Singh		B) D)	BalwantRai Mehta Madhu Dandwate	
41.	Naga	rPalika Bill was first introduc	ed in Pa	rliamen	t during the Prime Ministership of:	
	A) C)	V.P. Singh Rajiv Gandhi	B) D)	Chandrashekhar Narasimha Rao		
42.	The	police force of a district mainta	ain Law	and Or	der under the general supervision of:	
	A) C)	Home Minister of a State Collector	B) D)		Minister of a State intendent of police	
43.	The	word 'budget' is mentioned in	which	of the fo	llowing articles of the Constitution of	of India?
	A) C)	Article 226 Article 265	B) D)		le 112 of these	
44.	Acco	ording to Administrative Refor	ms Cor	nmission	(ARC), the financial year should be	egin on:
	A) C)	1 <sup>st</sup> November 1 <sup>st</sup> September	B) D)	1 <sup>st</sup> Ju		

45.	Alle	expenditure, out of the cons	nd is provided in:	
	A) C)	adhoc funds excess grants	B) D)	demand for grants supplementary grants
46.		C&AG of India is appoint le of the India	The state of the s	President by warrant under his hand and : ation.
	A) C)	148 150	B) D)	149 151
47.	Mon- by th		the contin	gency fund of India to meet unforeseen exp
	A) C)	Parliament Finance Minister	B) D)	President Prime Minister
48.	In the	e context of the budget, the	term 'Gui	llotine' is used with reference to:
	A) C)	appropriation bill voting of demands	B) D)	consolidated fund finance bill
49.	The	railway budget was separat	ed from the	e central budget in the year:
	A) C)	1920 1922	B) D)	1921 1923
50.	Whe		le by Parlia	ament pending the regular passage of the bud
	A) C)	vote on credit vote on account	B) D)	token grant supplementary grant
			-,	tioner.

21-(A) 1 3/12 = 52A 2 (19) 3 8/12 4 56A 2" महतेर क्षेटिंग के सहसारी काम्रह जारते हैं मरमार की सभी जीज भारताओं की कहर करना है ट्यांपिक अक्रिया का माग प्रश्नी, रू मानुकरीया, सेवार्थ अवान मध्ये मन्ने सम्बक्षे है निम्ह है 1 राहतिका 1805 र व्यक्त में मंतर्गत गर्मा की जाती : (छ) क्रीकि प्रशास्त्र विकट असमा (३) अदि समानः PARRIE TAX ifted that toward a new twite administration involves temperature soft 312 dio 30 2 Par Subject anistration in a Time of Traductorial 27 15 8 17 4 राय ने लोक सकास्त्र के वर्ष संबुद्धि के किट हिसा सकात रिक्षे करते हैं : (४) सत्र औक अञ्चलका BANK III AWOOD १०० जनस्तिम मानिस विकास दिल्लीका क दिल्लि के बारे में कीत-हा कारत हारी है : दे वस्ताहीय अनुसार की गुरवस शिक्षा में बाहर ह में स्टब्स अव्यालक के बस्तियर का विस्तार है। के महत्याम अधाक अन्यतिन ह असर्गकरातीय and के बादाविं कीन-शा उसन शकता है : क समाप्ती क्रम्हान्हें (8) हंगडनात्मा हमहमार्हे U नविस्तात छमस्यार्छ CD अध्यक्ति हासी वीज जिस के अनुशाद विभागीकाश के अल्लाय हैं! ाराजी २ मार्थालय ३ हमान ५ छत्रोला महत्र में महता विद्वारत तालानेल हैं! किए में मध्य है ! रहें मा कि मह का हमने वहा दार हम की पर ने क्षान्या में केल की अवस्थायका किस हे संबंधित है: p (निर्देशन ( B) नेतृहरू ( DU ARRIGARI) रे छन्नी प्रथमिता के रूप हैं नेतृश्व का विश्वनेषण किए ने Life Sill (13) मनी मा थी-भार बनीर्ड O एक की वर्णेट (D) फिलट वादाय ने प्रशासन की नई अवस्थायमा का प्रस्तान प्रस्तुत किंद्र में किए के प्रमासीविकास पर आवादित हैं : का विशेषन (छ) नह नार्विकता क महिला प्रत्यातार १०० मित्रीयतानीन मनेवनारिक दंगाकत ! । भीवजरिक कंग्रहत के सम्बद्धता जरमसर रखना है L भीषवासिक छंबार-प्रकाली की मन्द्र करता है अ भीवजरिय हैराड्य का भनाजबीकरण करता है म भोजकरिक सता की लागू करता है PN 117 年到 第 (D) 314 日到 是 (D) 2-3 FEA E. KET 114 BEG # साम हम्म भूत के भूतहार ! ा निर्धानिक समाल अरपादन के दिखा तैयार करता है मार्थ हेर्स दे सामाधिक प्रस्ति की संस्कृति अभिनेत 和北北 老

3. भन्नीयचारिक सीउट राष्ट्रक जिल्लामी की होटिंग हैं

ह सार्य-एक्ट की क्षेत्र न्यायका प्रकार है

a. oriania कर्मणारी के oriente की आकार प्रयास सर्थ

नार्यकारी हैं

(C) = 4/2 3 88/1 8, (D) () + 2 H E 13. " करकार के अन्दरिवर्तन ( ऑस्बोरन और गेस्कार) के किहान 4/17-9 年: ा सरकार ह्यारियस्या सी सताय होता करे कि होति-नमते हे ह्योर्-नक्षी सम्बद्ध : a स्टब्स्ट की विमेड़ीकर करना सावित 4. सरकार केडी-अभिन्य की (B) 3,488 # (A) 1, 2 ESA E (८) १७३ मही 🎉 (३) इसी घडी है ाय, केंग्री संसद की असरहाई है ! 1. भपने सार्थि के बिट 2 कार्य न करते के बिट 3. अयते मिरिस हैक्से के जिल् 4. अपने इस की क्रीसिंद के सिर (B) 3, 4 5 8) E (e) 1773 月到来 (x) AM 年到来 (的 D T AM 表 (的 3 H AM) 主 15. भारत है अवालतें केल्ल अधाराध्या कार्यनर्द हे र र र स्टेस THEF PARE । जब तक पर अपने समोद अधन रूप में मोर्ट में जारित है मध्य नक्षे दे २ - जब तक प्रशासनिक कार्याई निकारित कार्य-माराजी का भूतिका सभी करती उ जा तक पर पान असिकारों का अस्टेसान नहीं करती य जात तक यह विशेषक विद्वानों का अल्लंबान नहीं करती (B) 14 4 56/1 2 (以し2.5 も) ( 180 Fred 100) (E) 1/3/4 152/1 (S) 14. क्रिकेट के समह किन बार के की विकारना करिए : · मानुही क्षीकर्ट. =, मल्पमा मे भनुकार भविक्य 3 कार्यक्रम का स्वयंत्र फ स्टाप (B) 2) 3) 4 DEA #. (A) 1,2,3 50 \$ \$ (2) EM ARY # 4 ABB # 16 81 18 17. निकामित कामी पर विवाद करें : र उदेश हैं क्रिरिया प्रमास सेमी में का के मार्गिय नार्टर म आहेंग मिमालिंह में मुख्य चीन थें : ा सम्प्रीतम् सी ग्रेपनीमस 🗘 षठन्य Car lateral I siene (B) 2,3,4 BER & 美国社工社会 (16) (०) केनल । छड़ी है (छ) केनल ७ छड़ी है 18. प्रत्म व कोट क् है. की तरह, भारत है सिन्स चेनले 等成的 本族 台西科 । यस्मीपिक बल का कदहरा बचले है र बुनाव एवंट के और वर साम करते हैं अपनुनाद के अक्तिकार देने के प मिल्ली सभा की बनारी अभवा अह है आलिए होते हैं १९. क्षित्र रेन्स -1. सर्वा-ज्याधिक कार्य करते हैं म अवि अविकासिक काई करते हैं-र्क सामिताय समिताय के मंत्राल Askir Alls ह R& Blong ५ रजनित्र कार्यवाधिक की उत्तरकर्द है ( 10 11 21 3 FEA & 180 11 20 11 EA X (3) ENG ENG # \$ Par 4, E. 5 (2)

- हिरम हिन्दी हिंद विकास वह 2 3 Can 2 Harmery 2 4 Paris as & a. - hittering & (8) 112 4 BH \$ \$ 1373 ELLIN an (कारिक क्षेत्रकों की प्रशिक्तका देते के कका अध्यक्त की : गाउन उमार्थ के लेकड़े स्वामित्र उसी में लिए मान गडन तमह और लग्नेकं कि द्वारह अ अजरी अजरी किस्टेशियों के लिए मैंबार करता म उनके रस्तिभिक्त कार्यपारीका हे हेबेबित करने के जिल्ह नेपाद करता (R) 17 - 3, 4 889 2 (以) シュルを付着 山 えい 日利 芝 ्टर ७३ <del>५३ हुई। दू</del> an water 1. उटनार हिमारे हे जबन हिमारे के जिए निहासित है 1 कार भी अभिकार मुश्किल किएन हे जिए कर्नेटर्स के हरियक्त विस्ति है उ विकारितारी हैं कार्य विकास्ता है w . बस में घड़ में परिस्तीन क्षेत्र है J PFB € , C (B) (A) 1, = K-2A 7 (D) 20 H BEH 2 # Box 40 03 1.3 क्याप्त स्था में नाम्यसम्बद्ध अमेरिक शिविनियाँ हैं " a. Enteract PERSONAL ! I STEWN म (मेरमानुनी इसर्में भभम नुसर्द दीतें की) बेको के KEST ELLI LA CIN END ESTY & IN UN TEA E 4 PARHECE (0) 24, "वरमार्थी लेख समिति के बारे में मिलांदित सामने परिचार । इस हैं केलद में कोती सदने। में स्वस्थ मानिस सेर्न ा है सामाना तीर पर होती बुई संस्था है 3. क्ष का अवस एकस इहमोतरमीय मीट पावपती के भाषाह THE PART WATER & अस्यास जिल्ला केमार्यंत्र कोता है (田) 2,3,4 电新装 美層 だべい CA) है किल दर्भ (८) 「ロカア 日刊 花 as विमाणिक समने एउ विकास सरे : 45% । अस्टका मिटन जन साम्पल है T DESCRIPTION OF DESCRIPTION OF s. कारिपीय जीवि सा कार्यात है u राजनीतिक समायद है (B) 103, 4 589 2 (A) 15 20 4 5 21 2 差限开放用 (d) 星限中主(以口) ३४ चरि राष्ट्रमात्रिका पद जाती क्षेत्र है, ते गए ग्रह्मपीत क उन्नय किस्ते दिने हे केन पहिले (8) 4- (3) 190) W. (33) (३) योई समय सीमा नशी है ECO THE THEPE L) इकार मुन्ती के बार्ड में क्षेत्र-छा कार्य स्था में ! कर यह देशियों का समय करता है, उस की लिक्कियों आयंकि

मत्या है और मिर्द में अह है अवस्तर हों, में उन्हें

ट्यामाय देते हैं दिए कर एकम है

THESE WESTERS (1) अल्लेक सभी शीम

(x) वह श्रवम्बद्धि और संबुर-संबंध में बाज मंत्री है ८०१ वह होत्तर मा लिक्स के और कहारी स्टब्सार सा

CO ह कॅमिरिक्ट (b) महाभारत या. अवस स्टब्सर के स्टिस और सदम अकारत में हेवार के भीपनारिक वीनन है : (A) मुश्या भोती का शक्तिव ( B) राज्य का रहन्यपाल (c) Retra with ( कर क्षेत्रेमित विभाग माः स्टिब् 30. एम करवार के कारोकर के विकास के इल्टर हानेशित माहा की कीन कहता है : ् का जीम हामा में स्पीमर का मार्गाजा ca) देवी-देश्य का स्वितासय ्टर प्रयास केरी का कार्यक्रम केस्ट्रीय मान्यों का प्रेसला 31 भारत है अपने हाल है आक्रिस हैं (B) 350 FEET (42 2-3 8 BAEN (b) 156 HAFN संयुक्त भटार ६३३ विष्ठ अच्चानम राज्याताल का एक खाली हो। अलमे हमात्र पर सीत राजी हीमलता है : CN3 35 राज्य के उच्च - मामालय के मुराह CAR 19 8 21 24. CC) स्थाम मंत्री Frest Polyment Of House Cong केंद्रीय अविके का सब के सरका परन्त एक अवस्त्रेमी नाप भीत-छ है: (क) साहित्याः (10) अंगमितियो मार्थ ति विक्रित ति अस्तिक हुं हुं भूति अधिवाद 31. 机型型产业的 禁止一下 計劃, 著: ( a) अक्षिम मिल विश्वाप ( a) LIC ITU US BEEFFE BEEFFE (D) UTI क्ट जेट कार्यक्रमण्या हेट्टी कार्यक्रमणहरूमा है जिल cus मूचल क्षित्रीय मेराता मू ए हा जुल की आवादी पूरी तरह निवंदित की ग (८) मार्ट मा विसमाता क्षेत्रा है c so न निर्मात भीर न की आयात कोता है था. २०६३ में असिरीमिक विस का क्रीकी रोमकन हैं CA) IDBY CBY ABY (C) ICICY (D) I त्रम्य क्याणियः क्षेत्रं का राज्येक्यम कव । (V) 14x4 CB) 1425 CC) 1464 CD) 1884 28 were me want it timber set & fore स्थापन और देश हो है है है है जासर का के स्वयान्त्र के मुक्ति के हैर पर सर्वी में क्षेत्रक समाने के दिला अवकास कीती। वह I THE TO TOWNER ( 10) क न्या है जिल्ला का अपना किन के CES इंटिकाल का माम गा ्भ हंतिकाटा का भारत ए भ देख हैगान रिस्ता एवं भीन-स्त्री स्वाही साह भी (.क) (बेक्ट्रास्ट्र शक्ति) त्या इत्रक्षेत्रा राज स्त्रिति १६० हेस्सामा विस्ति १४० हेन्समा समिति

29 लोक अभावत एर जारीयका सत-पार सीत-का

can account a constant

भिनेत एक दिए की महामहार के महार विकास कि नहीं है रहा नमाई गई भी ।

(10 ब्रावंत श्राम महत (A) SIANT HEN

(0 स्टार हर्न किंद (m मन दंडन) रेक्ट में नारमास्थित कियेक यस्ते किए एकत मंत्री के छम्म वस्ता किया गमा भग :

( १३) चंद्रकेखर . A) भी थी छिट

CD3 नरसिमहः स्व Note Alus us

कि को पुरित्त बन किस की सम्मान निवस्ती के अपनी कासून और अम्बर्धां की सरकार रहेवता है :

(A) राज्य का मुह दोनी (B) राज्य का कानून दोनी

(t) डोक्सर (b) डिक्स अलीस, भारत में किस्ताल में किस अनुस्टेंट में मानद बातर के THE CASE STEEL AT .

(ए) मर्चिट्टर उत्तर (छ) असहरू मेह भी सही। ह अस्तिम सुचार आयोग (०२०) रे अनुसर मित्र वर्ष मान मार दोना नाहिए

(क) नवंशर (क) उनकारी (क) (क) (क)

विका मिक्ट में हे साम सार्च किव में दिया जाता है :

ार रक्त विका । या भन्ना के दिल क्या

(O hales a fake ( to अनुबास अनुबास

अस्तिक केवियान के -- अनुस्केट के अन्तर्य सहस्वति भव्ये कहताबार और मुक्तर के संस्थीन मारण्य संस्थ mus & cano so forthe test # !

(A) 128 (B) 149 (C) 150 (D) (5)

भड़ेक त्वर्य, क्षे क्य क्ये के क्षिट मार्ट्स की अमहिनक्रम BALL & & GOT RED BUT DEAD & OF IN IT EVERY # :

(B) 210249 38 G 183 (क) सकारा संत्री

१८३ दिन मंत्री कार में संदर्भ है, 'फिलोरीन' पर मा जायेन किस में समाने

: 第1515 田司首 OB) संस्थित विकित ता विभिन्नेका विकास

(त केटिय कर्मक दिसंदर (क) विस विद्यास हैनो बजर की मेंद्रीय बजर है किह वर्ष में अलग किया

(A) 1920 (B) 1921 (C) 1922 (D) 1923

वार के विश्ववित रूप के व्यक्ति किए मार्च सक, संस्ट मारा जन उद्याद अनुकार दिया जाता है। वह करते हैं !

(1) मिकार अनुवान (18) अमेरिक अनुवान চে৷ খনুদ্ধর খনুরন (व नेसा भगरान

Panofeli Yearlow (A) 1 mg = Ed 32 (3) 3 mg = 1 KE PER H EM E LED meter from the fiberal figs ask of 13. " इत्त्रात हे एउट-परिश्वात ( निर्मात के मेणहर) हे निर्मात RICK LEIE VO LINGER WELLER विकासिय मेरेनाने ध्राय सक्त राहे संयुक्त प्राप्त विकास 1. FORTO RESIDENCE OF HELD 2. Eszis GER- YES ST Gam- YAS 54 44/43 5 की अस्तियों ' Postacok' हे महिला अन्तर अनी कीनी काली! 4. 5.72va of (8.52x1)(3.3 2022 200)20.5 (B) ちょみかり オシノヒゲ 4. हरकार मीम-सभी डी मारट महावृह् BELLE FERE ECT) (B) 3, 4 45 2% Ke 162 x 11 UA) 213, 2020 which was " Toward a new Public Administration selles for is) ces to a will say a minney branck fecapective my 3 21892 6123 14 मीक्ष्य समय में प्रशास्त्रेण में : (10) Fublic Administration in a Time of Turbulence t. आरो प्रवर्ध तथी . इ. इ. इ. प्रवर्ध हरते पटार्थ है सदासार है मेंद्र प्रजास्त्र वित त्रका प्रविकारी g. mind attropulated that mes nell (25) year 2013 & (25 of mind ox: 4. most 22 sport atomic men OU SE HE YOURS (A) (A) 15 2515A (क) के मध्ये अर to finis frams (a) स्वीका होती (A) 1, 2 FS DA Ke les for cas 100 62,3 107 27. ו ל רבוף בשב יבבו לובה יותואלים בינו IS. সমত হিত সময়লতা ইয়া, মুলুক্তির আহমান হিত্র হাল্য সূত্রী म हिर पर्यवासी मानुसूत्र भी गुरेम सीमा है व्यापक महीता (2/2Ami) = 1. (४) दिन (६० लायर हारेम मां तुम का) हराने हैं पाठक IN RO THE KHIRA & RIMANIE OF GREEKS ME CO. נכן לכן במולצא בי האורבו כש לבאורבו כא לבוצר-בסוב ביפוחבה) לפוביסיג בהוחות מים יג'ע) . ב ( 10 guil 23 Ch PERE LOX KELLEN IS לבו לפ באובני (פיאר או הצבו " क (प्रीम दिक कि भूद भारियांको यन बुर्केन्छ। तथी यक्ष्मी יבות אלות ברצוג בופל נפן ברובת בקובת מו අ ලිනිය ලිය ලිය ලියදීමක් ලික්සුව අති මුතියක් නවා කාත්ථ (O(EMES) 713 EXPERMENT (D) QUES (S) KE 13, 4 FEN 32 10 10 1 213 mil 24 ERS MARIS ERUMBARA & MIRIO DA! to let for un 3. चल्क ५. अप्रेक्स KC 128, 4 851 52 11. YANA 1 - 2453 (A) 1, 2, 3, 5, 51 22 (B) 2,3,4 5,9 72 1 aight Alman (D) 13 2 55) DA (1) पत्र के प स्त्री का E RENOT HIS ON BUTTER IS अ भीताम दर मालम יל אחב וע הוא "ל בריצור בוחודו ומכוע וב אבוח 4. WEST SXE. PINKE (B) KHERD (B) KHERDIR (B) PECT तद दिल ६,६ ८ १११) (B) 2,3,4 Fol 3% contra fire can KC (12 4 EV) 27 יני במוצגא בות און רגבות פב בצל ב ובצומוב (१३३ २३३) (१) ब्रेड्स 17 30 (Rin 250) 3" (\$2018: the margan १९६१ दिस दाउडारमी प्रकार भीवती हैजर मेरल है राजानिय ERZE ZI WIETTA ZASI (RE 2 254 WIN FA: the the 1. 2234 sygma 2 - - HRZ SKH) MIER - FERNIER (B) MAT 4. 3/23 1 - No-(\$327) 10 mm-2A. 822 Ected के प्रजास की प्रवर्ग का प्रसाद प्रसाद (A) 1,2,2 (A) DA (A) 2,3,4 55 OX ול בבלידוות בעם ביותות בת לבו בב בבו יבכבו יולב Eler Exert (A) Elet 1 REFE CD 1 18 मा मीट रे आरे खुरे कांग, अवन दिन किस्स हेटमां है किहें। (१) किया प्रकार (१) व्यक्त अवस्थित्रका Hamm Bran B: (b) dawaza ELENESE SERVE IS A ATH SOIL IS AS ABRAIS A t Karek Box of 2. 日下日本 · 五 · 五 · 五 · 五 · 子 i mid Anda (ka data) waare musi 5 a . Grand Sti Ga Ez migz 3" ב ודבג מבה ל הבוצע מבל הופר ב म (बेर्स समा है पारावेर को बेर विस्त कार्यात नेह ने す からいろ まかるス マル いかいスをりなかえ ユマシン ジ (10) 3,4 55 32 ५ अस्मी में अर हैं लागू प्रकश में 100 102 SEP 27 Ke दिन रिक्त एक्ष) ود المح وردرا دع) (10 (2.45) 2x (10) 3,4 53) 2x (20 2,3 5,5) 224 12 then hen -10-113 5/122 1. mag-Ramiles and are sh mar hat hax mans: 2 mote (4111/12 2002, 202 52 LIEGE CIMED FOR KEINER STREE KANDERS a. अन्तर्भ केंद्रीयो भागविक्यां कार्य करमाविद्य अवस्थापिक ALLER MERE BY HE WAS EXILE OF BEACH MERES के सकात हैकी ma 5 RECEDERS & CERTIFIED ERECTED ST as March As ising ago along a the Adam to IN URA FOR IN (B) URA FOR EX \*\*\*\*\*\* 33 १६० में होती पत पर दिस्स में हरी देश " (בו-27) במחשמו ל (בשטום בי mise צבוג है। हिन बार्य है कि द्यान-हाय की देखा

- Pere how As impress as s. 6193 B 1 32338 5 4. FREZZ 3 3 - Amiledna 3 १८० १८३ म मार्ग १८ (A) 1, 2, 3 15) DA पट हिल्ल हिल एका 16,12,13,4 FSI DA 21 Three from of thempool do it legit off DA: 1 aigh am med than than & amo anxi 2. 25152 of Rates (252) 2212 2220 2. Bai z Balami (Krisistrin HeA Bris 2020 u. क्षेत्रां हुँ अन्त्रशिक्ष काक्स्माविका राष्ट्र ईर्द्धवित प्रमू Mer come Day (物)ショラ、サデカコス KEPER HELL CAS १८) एउ मजी ३३ (व) ४, म मजी ३३ ा हेंग्रेश थाएको है. महत्र थाछिने कका थिएको है 22 3729 2. รัก อภิ อสิจิ พรรม (มีมา เลยใ มารัย อก พริสารม 7. (\$\dark (42 24 683 \$ 나 올해 현장 나는 현장 기원기부3차 회의 뜻 (B) 23 FS 34 KE PERSULAL (2) 2,4 For DA 101 114 42/28 23. German za Fax mil Ba mil feathir Ix: । विकटान्ट्रेंग र. हिल्हानम उ. हरूपरस्त्री 4 (Roselfor swelling in generous stail) \$35 & 43 Per 2200 रहाद्यिक्ष एका KC FER ELELI CA) (D) 1, 2 FA 32 (() 2, 3, 4 53) 32 द्रम सक्का में मा अभेकी को के कि ने ने मार्ग में दिवते : ा हिंद दिन मैंतर है हैंगे महत्र है कैंदर क्रिय हैंरे गर 2. RO THE REE E OF WAR COME IS E FRIENT & PRIENT SIF PROETERC KES ZE NO TEL PE 2 Peise Pelse 4 Ger as way stem grown general 289 2 (B) 2,3,4 5/57 KE PER ECTURAL KE POR ELE COL) (4) 1/3 ml ox दर देश दिने बस्ता है हिसान करें। 1. @3051 (B3) SI MEY D 2. WALL SO FREE S 2 KATOR IS FERE KARESINE - E ५ अप्रवासिक क्रमानिक में אב ונא איציו ושו אב ונא איציו נאו स्टरिक हैन एक) स्टरिक हर्दर्श छ।

24 र अवस्थानी दें। यह किसी देश में की प्रकाशी म वेड व्यर्थ हिल हाल ने में हैं के वह कि (a) 60 हिंद (B) 90 हिंद (C) है भारती (B) हैं की इसांसीमा 20)

२७ ५०० भीति हार्ड विश्वा रहार स्त्री हैं: (A) Bo warmin 29 35 2720 5, Boi & Trazzolo 2920 ל הל ב פס פה אוג אהרסחם לב זו פסי ל Bom 27-432 25 ARA 2B FREN 5

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# Ph.D./M.Phil. Entrance Test - 2014

# Subject: Centre For Defence & National Security Studies Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Answ	er Sheet Serial N	0.	
		Signature of the Cana	lidate
Time: 60 min	utes Number	of Questions: 50	Maximum Marks: 50

### INSTRUCTIONS

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- 5. Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- 6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- 8. If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

94	Dete	nce Policy of a country aims at		
	A) C)	Maintaining international pea Preserving sovereignty	ce	B) Safeguarding territorial integrity     D) Projecting National Image
2.	Ident	Property and the second	al wea	apons treaties in descending chronological
	A)	Chemical weapons conventi Biological weapons convention		US-Soviet chemical weapons agreements,
	B)		ns ag	reements, Chemical weapons convention,
	C)		ntion,	Geneva Protocol, Chemical weapons
	D)		al w	reapons convention, Chemical weapons
3.	Whic	ch one of the following is not pa	rt of t	he Human Security discourse?
	A) C)	Freedom from Fear Resource Scarcity		reedom from Want efence Expenditure
4.	- 178 m	Sinatra doctrine:	2/4	creme Expenditure
191	A)	Was a catchphrase for foreign	notic	w under Gorbacheu
	B)	Replaced the Khrushchev doo		The state of the s
	C)	Followed glasnost and perest		
	D)	Was a catchphrase for foreig and perestroika?	n poli	cy under Gorbachev and followed glasnost
5.	Strate	egic Studies is related with the s	tudy (	of the second se
	A)	the evolution of warfare		
	B)	the use of military power for		
	C)	the use of military power for		
	D)	the military policies in the nu	clear	age
6.	Which NAM		es di	d not contribute to the development of the
	A)	Egypt	B)	Yugoslavia
	C)	China	D)	India
7.	Who	among the following propound	ed the	concept of "push to utmost"?
	A)	Jomini	B)	Clausewitz
	C)	Alfred.T.Mahan	D)	Douhet
8.		cory based on principle of ratio iding alternative to war is known		ecision to prevent total destruction and also
	A)	Dependency theory	B)	Theory of Security Dilemma
	C)	Deterrence Theory	D)	Balance of power Theory

9.	Wh	nt can be	said abo	out the N	New Ha	aven Scl	hool?	
	A) B) C) D)	It is a	also knov	vn as th vn as th	e polic e legal	y appro interna	tionalism approach.	-
10.	The	UN wor	id confe	rence o	n Hum	an Rìgh	its in June 1993 was held in:	
	A) C)	Gene				B) D)	Vienna Paris	
H	India	and Fra	ance sign	ned stra	tegic p	artnersh	nip in which Year	
	A) C)	1998 2011				B) D)	2000 2013	
12.	Whic	h one o	f the fol	lowing	is the o	country	of origin of "Phalcon Radar"?	
	A) C)	Israe				B) D)	Germany India	
13. Who said, "Victorious warriors win first and then go to war, while del go to war first and then seek to win."?					and then go to war, while defeated wa	irrior		
	A) C)	Liddi Kaut	le Hart ilya			B) D)	Mao Tse Tung Sun Tzu	
14.	Who a snal		the follo	owing t	hinker	s compa	ared the internal threat as a "lurking ho	o boo
	A) C)	Kaut Carl	ilya Von Cla	usewitz		B) D)	G. Douhet H. Mackinder	
15.			efence p				cing -DPSU's (LIST 1) with their loc	ation
		List -	-1 (DPS	U's)			List-2(Locations)	
	A) B) C) D)	Hind Gard	at Dynai ustan A ien Rese at Electr	eronaut arch Sh	ics Ltd ip Buil		i. Hyderabad ii. Banglore iii. Goa iv. Banglore	
		Code	15:					
	A) B) C) D)	a i ii iii iv	b ii iii ii	e ii iv ii	d iv iv i			
16.			he follo	The second second second		A STATE OF THE REAL PROPERTY.	tant figure in the development of	libera
	A) C)		o Grotiu nas Hob			B) D)	Niccolo Machiavelli All of the above.	

17.	Whic	h of the following events con	tributed	to the emergence of international society?						
	A) B) C) D)	The Crusades.  Exploration and colonization The Protestant Reformation Both exploration and col Reformation.	n	New World of the New World and The Protestant						
18.	The c	The discipline of defence economics mostly concentrates on:								
	A) B) C) D)	Pre-war economy Mobilization of military re Planning programming an Allocation of natural resou	d budget	ing of resources for defence requirements.						
19.	It is r	nost accurate to describe real	ist theory	y as						
	A) B) C) D)	Irrational, in that it denies Amoral, in that it refuses t	that hun to conder st theoris	breach of important ethical rules.  nan beings are capable of rational thought.  nn every action that breaches moral rules.  sts are very reluctant to voice an opinion						
20.	Whic	ch one of the following comp	letes the	research process						
	A) C)	Research note Summary Writing	B) D)	Report Writing Preface Writing						
21.		The Monroe Doctrine stat	ed that							
	A) B) C)	America reserved the righ	t to inter ts interes vers.	tic entanglements with blonde actresses, vene in armed disputes across the globe, sts within its sphere of influence without communist state.						
22.	Which of the following is a way of doing social science research									
	A) C)	Case study Plan Study	B) D)	Game Study Process Study						
23.	Нур	othesis relate generally of spe	cifically	Ni Ni						
	A) C)	Variables to Variables Variables to Constant	B) D)	Constant to Variables Constant to Constant						
24.	Who insig		"Resear	rch is an honest effort carried out through						
	A) C)	Watson Binet	B) D)	Best Cook						
25.	Fran	ce withdrew from Indochina	after a m	ilitary defeat at						
	A) C)	Dien Bien Phu Bao Dai	B) D)	Ho Chi Minh Pusan						

26.		ch of the		ing is r	not true abo	out Memor	randum 68 of the National Security
	A)		cribed th		et Union a	s an uncon	strollably aggressive empire bent on
	B)		of these		25		
	C)	It rec		ded m	200	litary build	dup and the development of the
	D)	It urg		omatic		nations of	the Warsaw Pact to break up the
27.					g Arab-Isra rlev line:	ael Conflic	ets was seen as responsible for the
	A) C)		Conflict Israeli (		6 t of 1973	B) D)	Arab Israel Conflict of 1967 PLO-Israel Conflict
28.	The	person, f	or whon	the te	rm "one ma	an boundar	y force" has been used
	A) C)		itama Ga K Sundo			B) D)	Gen. Erwin Rommel Nelson Mandela.
29.	The l	Korean V	War's "p	rivileg	ed sanctuar	ies" were l	ocated in??
	A)		Vietna			B)	Taiwan
	C)	0.0000000000000000000000000000000000000	Korea			D)	Communist China
30.	Which of the following is not the fundamental objective of CBM's and propounded by Helsinki Final Act of 1975.						
	A) B) C) D)	to pro	omote co	onfiden danger	se of tension ce between of conflict ag of militar	parties to	contribute to stability
31.	Who	wrote th	ne book	"Neces	sity of cho	ice"?	
	A)	K. Si	ıbrahma	navam	000 <b>0</b> 00 000 000 000 000 000 000 000 00	B)	Carl Von Clausewitz
	C)		lenry Ki			D)	D.K Pandit.
32.	Mate	ch the f	ollowing	g even	s with the	eir respecti	ive core objectives and choose the
		Tabl	e 1				Table II
	A)	Hels	inki proc	cess		(i) C	onfidence Building Measures
	В)		cholm C		ice	(ii)	Confidence and Security building measures
	C)	STA	RT-I			(iii)	Strategic Arms Limitation
	D)	INF	treaty Code	es:		(iv)	Reduction of Nuclear Forces
		a)	b)	c)	d)		
	A)	1	ii	iii	iv		
	B)	ii	1	iv	iii		
	C)	iii	ii	i	iv		
	D)	iv	iii	î	ii		

33.	Natio	onal Institute of Oceanogr	aphy is loca	ted at:			
	A) C)	Mumbai Chennai	B) D)	Panaji Lucknow			
34.	Who	wrote the book "Absolut	e Weapons:	Atomic Power and World Order"			
	A) C)	Harman Kahan Bernard Brodie	B) D)	Montgomery Carl Sagan			
35.	A na	tional level environmenta	l research in	stitute at Nagpur is			
	A) C)	NEERI ICAR	B) D)	CPHER CSIR			
36.				minutes and slips down 2 meters at the very top find the length of the pole?			
	A) C)	74 meters 80 meters	B) D)	72 meters 90 meters			
37.	A nu	mber is as much greater t	han 17 as it	is less than 57. Find the number			
	A) C)	36 40	B) D)	37 44			
38.	If the following series of numbers is written in the reverse order which number will be the seventh to the right of the fourth number from the left. 1,8,3,9,7,4,10,6,2,11,13,5,14,16						
	A) C)	3 13	B) D)	9 2			
39.	"Stea	am Roller Tactics" was th	e core of Isr	aeli offensives in one of the following:			
	A) B) C) D)	Military operations in Military operations on Military Operations in Naval operations in M	Golan Heig the West Ba	hts. nk.			
40.	'Sou	theast Asia: Crosswords	of the World	a book authored by			
	A) C)	John F. Cady Milton Osborn	B) D)	Clark Neher D) Carlyle A. Thayer			
41.		SAFTA Agreement was mit held in	s signed on	6 January 2004 during Twelfth SAARC			
	A) C)	Colombo New Delhi	B) D)	Kathmandu Islamabad			
42.		Treaty of Guadalupe I- tries:	lidalgo esta	blished the border between the following			
	A) C)	Mexico and US		B) US and Canada D) Canada and Mexico			

43.		Which one of the following treaties belon Latin America?			gs to the Nuclear Weapons Free Zone in			
	A) C)	Treaty of Tlatelolco Antarctic Treaty		B) D)	Open Skies Treaty Treaty of Terotonga			
44.		among the following assism"?	serted that	"clima	ate change is a bigger threat than			
	A) C)	David King Hannes Alfoven		B) D)	R.K. Pachauri Tony Blair			
45.	The I	BTC energy pipeline origin	ates from w	hich c	ountry?			
	A) C)	Armenia Azerbaijan		B) D)	Georgia Kazakhstan			
46.	Whic	th one of the following cou	ntries is not	a mer	nber of NATO?			
	A) C)	Hungary Czech Republic		B) D)	Belarussia Poland			
47.		among the following US sed as "X"?	cholars pub	lished	his article in Foreign Affairs journal			
	A) C)	Henry Kissinger Bernard Broodie	B) D)		rge F. Kennan ard Haas			
48.	Mahakali Treaty between India and Nepal was signed in the year.							
	A) C)	1996 1998	B) D)	1952 1950				
49.	Who	said the term 'Cyber Spac	c'					
	A) C)	Linda Billgates E.D Swintos	B) D)		iam Gibson Pitroda			
50.	Kaut	ilya advocated six catego os constituted the standing	ries of troc army?	ops, w	hich of the following categories of			
	A) C)	Maula Troops Sreni Bal	B) D)		ita troops vika Bal			

# 024016

# Ph.D. Entrance Test – 2014 Subject : Social Work

## Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Ans	wer Sheet Serial No		
		Signature of the Canc	lidate
Time: 60 mi	nutes Number	of Questions: 50	Maximum Marks: 50

## INSTRUCTIONS

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- Do not make any identification mark on the Answer Sheet or Question Booklet.
- Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- 8. If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

# 

1.	Glob	al Human development inde:	x reports	are brought out by
	A)	UNICEF	B)	UNESCO
	C)	UNDP	D)	UNHCR
2.	Who	among the following is assestanding?	sociated	with the Verstehen approach which means
	A)	Karl Marx	B)	Max Weber
	C)	R K Merton	D)	R M Maciver
3,		book "Community Welfare en by	e Organi	sation Principles and Practice" has been
	A)	K D Gangrade	B)	Murray G Ross
	C)	M S Gore	D)	Arthur Dunham
4.	Adve	ocates of the structural appro	ach to so	cial work generally view social welfare as
	A)	One of the contradictions	of capita	lism
	B)			p people attain a reasonable standard of life
	C)	A limited, temporary resp	onse to h	uman need
	D)	None of the above		
5.	100000	fare activities in Rural areas	are not ha	impered by:
	A)	Lack of finance	B)	Lack of data on population needs
	C)	Absence of leadership	D)	Poverty
6.	0.700		o practice	emerged during which time period?
	A)	Early 1900s	B)	1920s
	C)	1930 to mid 1940s	D)	Mid 1940s to 1960
7.		ose definition of social case on, problem, place and proce		s indicated the four essential components :
	A)	Perlman	B)	Hamilton
	C)	Taylor	D)	Richmond
8.	Ora	communication formats in	clinical so	ocial work practice consist of
	A)	An agency's operational	manual	
	B)	An agency's organisation		are
	C)	An agency's mission stat		
	D)	An agency's catchment a		
		.vv. active # 5.000 # 000 (2000 2000 9 1150 9 127)		

9.	Which	h of the correct chronologica	sequenc	e of Acts?							
	A) Hindu Adoption and Maintenance Act, Mumbai Children's Act, Juvenile     Justice Act										
	B)	and the state of t									
	C)										
	D)	None of the above									
10.	The N	The Ninth Five Year plan envisages									
	A)	Poverty eradication	B)	Growth with social justice							
	C)	Industrial Growth	D)	Agricultural growth with rural development							
11.	One	One of the following theories is known as growth oriented theory:									
	A)	Psycho analytic theory	B)	Client centred theory							
	C)	Existential theory	D)	Cognitive learning theory							
12.	Which among the following is not the purpose of Human Resource Planning?										
	A)										
	B)	1일 마다									
	C)										
	D)	Optimum use of currently	employe	ed human resources							
13.	Conscientisation model is associated with										
	A)	Mary Richmond	B)	Paul Chowdhary							
	C)	Paul Friere	D)	Perlman							
14.	NICP means										
	A)	A) National Initiative for Child Protection									
	B)	National Integrative for C	hild Prog	gramme							
	C)	National Integrative for C	hild Poli	icy							
	D)	National Initiative for Ch	ild Plann	ing							
15.	Prob	pation of offenders came into	being in	the year							
	A)	1948	B)	1952							
	C)	1958	D)	1962							
16.	Mui	rry G Ross suggested 3 ap tent approach and generic co	proaches	for Community organisation i.e. specific roach. The third approach is							
	A)	Problem approach	B)	Process approach							
	C)	Propaganda approach	D)	Planning approach							

17.		ge Survivors, Disability and mme was created by	d Healt	h Insur	ance (OASDHI) a Social insurance
	A)	The Social Security Act, 19	15	B)	The Poor law of 1601
	C)	The Statute of 1572	33	D)	The Laws of Settlement 1662
				CO.K.	
18.	Institu	tional redistributive model is	linked	with	
	A)	Totalitarian State	B)	Welf	are State
	C)	Capitalist State	D)	Com	munist State
19.	Who h	as advanced the 'soft' and 'l	ard' ap	proach	of HRM ?
	A)	Benjamin Schneider	B)	Jame	s Niniger
	C)	John Storey	D)		d Baind
20.	Arrang	ge the following types of data	in ord	er of the	eir complexity
	A)	Interval	B)	Ratio	(C) \$1000
	C)	Ordinal	D)	Nom	
	Codes	THE RESIDENCE PROPERTY OF THE	200.00	, 3, 1, 2	
21.	The co	oncept of management by obj	ectives	was int	roduced by
	A)	Mary Parket Foilet	B)	Keith	Davis
	c)	Peter Drucker	D)		Taylor
22.	Diagn	ostic School of Social Case V	Vork w	as devel	loped by
	A)	Ross	B)	Jung	
	C)	Rank	D)	Mead	
23.		rst Women's University was			
	A)	Delhi	B)	Calc	rite
	c)	Bombay	D)	Madi	
24.		of the Indians are	3000	Secondo	
	A)	Negrito	B)	Nord	ic
	C)	Mediterranean	D)		-Australoid
25.	75	termed the rational 'Apartho	0.300	ers to	
		Sector discolutions	D)	Delle	last dissolvation
	A) C)	Social discrimination Racial discrimination	B) D)		ical discrimination ial discrimination
26.		nief advocate of Inverse Ded			
MARKET !					
	A)	J S Mill G Simmel	B)	M W	eber Moveno
	100				Note that the second III I

27.	The C	Quality of questions in a test is	s assessi	ed by us	ing the method of
	A)	Item analysis	B)	Task	analysis
	C)	Content analysis	D)		analysis
28.	Induc	tive statistics refers to			
	A)	summarising of information			
	B)	application of research met	hods		
	C)	application of x2 test		- 5	
	D)	making generalisation abou	it some	populati	on on the basis of sample
29.		Community is the smallest te I life" According to	rritorial	group t	hat can embrace all aspects of
	A)	C H Cooley	B)	Kings	sley Davis
	C)	R M Maciver	D)		H Johnson
30.		h of the following can impose Indian Citizens?	e reason	ablerest	rictions on the Fundamental Rights
	A)	Supreme Court			
	B)	Parliament			
	C)	President on the advice of t	he Cour	ncil of N	finisters
	D)	None of the above			
31.	Unde they		s no po	wer to	repeal Fundamental Rights because
	A)	Enshrined in part III of the	Constit	ution	
	B)	Human Rights			
	C)	Transcendental rights			
	D)	Part of basic structure of es	sential	framewo	ork of the Constitution
32.	The (	Government Bill means a bill	introdu	ced by a	
	A)	Member of the treasury be	nch in t	he LokS	abha
	B)	Member of the Parliament	who is	not a M	inister
	C)	Minister in the LokSabha	THE STATE OF		
	D)	Minister in any house of th	e Parlia	ment	
33.	The :	Supreme Court was set up und	der		
	A)	Pitt's India Act		B)	Regulating Act
	C)	Indian Council's Act, 1861		D)	Indian Council's Act, 1892
34.		ch one of the following Articl tion of Village Panchayats	es of the	e Consti	tution of India makes a specific
	A)	Article 19		B)	Article 21
	C)	Article 40		D)	Article 246

35.	National Development Council was set up in								
	A) C)	1948 1951	B) D)	1950 1952					
36.	Swan	an Jayanti Gram Swa-Rozga	ır Yojana	came into being in					
	A) C)	April 1995 April 1999	B) D)	April 1997 July 2001					
37.	What is the name of the scheme which provides training and skills to women in traditional and non-traditional trades:								
	A) C)	Kishori Shakti Yojana Swayamsiddha	B) D)	RashtriyaMahilaKosh Swawlamban					
38.	The Economic and Social Commission for Asia and Pacific (ESCAP) is located at								
	A) C)	Kuala Lumpur Manila	B) D)	Bangkok Singapore					
39.	The h	eadquarters of United Natio	ns Indust	rial Development Organisation is at					
	A) C)	Washington D C Rome	B) D)	Vienna Geneva					
40.	The purpose of the World Bank is to								
	A) B) C) D)	meet balance of payments reduce trade gaps give international loans for assist in projects in develo	or develop						
41.	Where was the World Summit on Sustainable Development (Rio +10) held ?								
	A) C)	Davos Johannesburg	B) D)	Shanghai Nova Scotia					
42.	The I	92 <sup>nd</sup> member of UNO is							
	A) C)	Montenegro Swaziland	B) D)	East Timor Taiwan					
43,	Whic	h of the following is not ass	ociated w	rith the UNO?					
	A) C)	ILO Security Council	B) D)	WHO ASEAN					
44.	In Inc	dia, as per Census 2011, sex	ratio amo	ong children has declined from 927 (2001 to					
	A) C)	915 (2011) 914 (2011)	B) D)	916 (2011) 917 (2011)					

430	As p	er UNO's declaration, the	year 2011 is	s being celebrated as international year
	A)	Youth	B)	Women Empowerment
	C)	Forests	D)	Global Economic Cooperation
46.	Parti	cularistic achievement pat	tern is chara	acterised by
	A)	Modern values	B)	Traditional values
	C)	Universal values	D)	Ascribed values
47.	Wha	t is the prime reason of So	cial Change	according to the conflict theorists?
	A)	Social problems	B)	Social conflicts
	C)	Social tensions	D)	All of these
48.	Whit	ch Schedule of the Indian	Constitution	is enacted to protect tribal interests?
	A)	5th and 6th	B)	Only 5th
	C)	Only 6th	D)	None of these
49.	Acco	ording to UNDP what is th	e current po	opulation of the world?
	A)	6 billion	B)	6.5 billion
	C)	8 billion	D)	7.2 billion
50.	Acce	ording to NCEUS in 2005	report, perc	entage of unorganised workforce is
	A)	85 %	B)	86 %
	C)	87 %	D)	88 %

े हे लिया कि उसके राज अभी में ती मान कार की मानी हैं: IN UNICEF (B) UNESCO (C) UNDF (b) UNICE

IN कार्न भारत (B) भेरत नेवर

ए भार के मर्दन एक आर. एक में कहना 7 STATE Community welfare organisation function

and Paretice to STATE ATA &: cm मेर जी यह (A) 2 - 39. 12-13

ट्य पर पत्र क्षेत्र टक्ट भागीर केरहेस व कालीमा मार्थ में जिए कंप्यास्त्रमा पहुँच में समार्थम सामाधिक

स्लाम के जलारशतक किए तरह देखते हैं :

CAN दिशीयाद का एक अंतरिशीयाट

ांच में दिस काल इसन सार्वेड वर प्रायमक इसे हारा

नोगे की एक्समा करने की भागवाक उस उतिक्रिया मस्मित्र देशम्य के द्वारा कार कार कार

m अपनेस्य में हे भर्र भी पत्ती, हू

ा मानाम स्थेत, में क्याबासामी मसिसिसियों में प्रान्त क्या मंत्री मंत्री,

(क) विच की अभी

(क जाता की नरूरतें के बारे हैं डाटा की बली

(ध नेत्र के अभाव

( to) मरीनी

· व्यवसर के किए जन्मणित्सक शिक्षान्त पहुँच कन अस्तिहर

( A) 19 ... में मारम के

(B) 1920-7 E

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CA) TREE 1940- # \$ 1960 \$

में सह है तसलावीय त्या हमी में बेच में प्रतास हातरा हा नार आवश्यक तरने भी अंद एंकेन किया है। वसकिन, एकस्या END THE BRIDE !

(मा दर्भीन (मा देशिक्टरन

(क) दिसमान्द्र । निर्मात सामित कार्य के में भीतिक संबाद कार्य में का किस्तित क्षेत्र है :

मानी स्वामान राज्या मिल्ला मिल्ला

(W एवं सी की केतडनाटमक हरेचना

रत एक्ट्री का किएन विकास

IN एमें ले के अमरिक सेन

१ भिनिविस्ते सी सदी सालक्षणिक तस्त्रीन मीज-सी है :

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का देवर मान अधिविष्या, दिन्द अंतिस्ता और निर्मेट Whilliam, And - MIT Whilliam

CO MI CAN THE CAN

(भा अपनेस्य हैं, है सर्हे भी सही, हूं :

ा तीन क्या वर्षा मोत्रक वित्र कर वित्रक करते है:

IN THANK IN THESE

(क) कामाजिक -माम करिस दुवि

CO STRIPLE PARK

मान कार्य हिस्से हास्सी मिलक मिल

ा कि मिल्ल के बुद्धि-भाष्मित्र विद्वान्त्र करा नाम है :

W. H.A. BERMHIEHE, POLITER IN THEL HEAR PORTER

का महित्रहर्म मही दिसान्य

प्रमाया माराजी माराजासी (1)

ार मात्रक हेमान्य मोत्रक के प्रामीवात कीय-सा जारी है।

मा कि कि कार्य अही में मिलाही में मंड हामान LA)

१ का जोद लाजार प्राविष्टा का विद्यापा इसला

(c) आर्थ म्हालामा संख्या की अधिकालामी सरमा क्षित्रका क्षित्रका क्षित्रक स्थापन क्षित्रका क्षित्रका क्षित्रका क्षित्रका क्षित्रका क्षित्रका क्षित्रका क्षि

(B) मान नीमारी (म) मेटी विसम्मान Chy Gerna CO WA SWUT

14 MICT के क्या लाटमार्थ के :

(A) National Institute for south Portection (B) National Integrative for child Pagesone

co sentered Interestive for third Policy 13) restinat Taikative for child Harming

ाड अद्याधिकों की प्रथम ने दिए साम भीरतक ग्रहत दिए।

(A) 15/6 (B) 1427 (C) 1428 (D) 1467

ा मेरे जी मेह ने सामुनाविम संगठन में किए तीन पहुंचा समाव दिका: विकोध सारवस्य धर्मुन, भीट सामान्य सारव पहुंच। तीलरी पहुंच है।

(क) मिन्या वर्तन (A) शासाम प्रमुच ाटा प्रसार पहुँच 🕬 मोजन पहुँच

19 हिंह भाग असरमीत्री, निर्माण्यतः भार स्वास्थ्य वीकालकाम सामाजिक सीमा कार्युक्तम किस द्वारा स्थापित किया समा

(1) सामाधिक एउटा अधिविद्या ।१३५

CB3 1601 का निकास काराज

(4) 1572 की हिकित

(D) similary from 1662

हा तानी राजीको है तानी की हरते हाअसीहरा द्रमाण्डल का

Cas formatted took (A) हमिनामी राज्य (का हात्रामार्थ शहर ८८३ ब्रेजियामी शक्य

11 men की 'जरम' और 'मझेर' पहुँच किए ने सहसे क

(10) केलन विकास (n) नेजापित श्रोतहरू (D) लेंगड कीन्ड (८) नाइन स्थोरि

अरु आरु भी निष्णांकित किल्मों की इत भी नरिस्तात के मुनुष सम्मीन है।

१.(१) अध्यापान STERES (A) CHI MINIST

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21. अक्टूराने द्वारा जनस्य की भवत्यातमा किए ने जरहतुन की भी

्राही सामेर कामानेट एका मीचा विवा (८) प्रीहर देसर (१) एक उन्हर देशर

12 वर्षानियात समात्र कार्य के त्रीश्रामिक स्मूल विस्तृत है विक्रिक किया था :

क्षी का मंद्रे का मीट का निवास

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CA) मिलिके (B) नोडिक

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क रहेरों का सामिक 'का नहें किस की और सेकेंड काता है (६) रामाधिक भेक्साव (B) राजनीवित्र, भेदभाव

एक महाजी भेदनाव the Emplit of the भ अविजीम विशवन अवादी का जुरूप एकर्पक है: (A) के एक किंत , (8) एक चैंबर (D) जी एवं, मेर्निने

(0 नी किमल वरीक्षा है प्रकी की गुलक्ता क मुल्योंका किछ विधित

में अपोध से किया जाता है।

(A) सन् विक्रोसात (B) साम विक्रोसात

, o विलयस्त विश्लेषकः (D) अनुनि विश्लेषकः 28 भाममनात्मक मान्द्रे (केल मी अरे छंत्रे बरो हैं

(म) ह्यान के हिंदी (म)

(क) क्षेत्र विकास का अमधीता

(c) K प्रश्चिम का उपयोग ( अ नक्त्रे के अल्लार पर कुछ आवादी के कार में

Mary 1024 Harris

भा मात्रामा हे सारा में की मात्रा में की मात्र है कि है सामाद्रिय जीवन के छभी पात स्थिमवित को सकते हैं। यह करन Carry and # :

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( अ.स. एक. मेमाहार W हेरि एव ऑस्नासन

30. भारतीय नामिकों के घल भिकारों पर अधित रोहें र्वेत-छा समा छन्ता है :

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(८) मंत्री-परिवाद सी सवाह है आर्युपति

(का अम्मिस्य हैं, है कोई भी सदी, हू

या अनुन्देह ३६९ के अंतर्गत, छंहर को खन अधिकारों की नियास्त्र मारने मार मोई अविस्तार नहीं है दहांति है है: (A) हेक्सिन के भाग में में सर्वात

(B) मानव अस्थितः ' (C) अञ्चति अस्थितः

(D) शंकिलांत के भावदेशक कोंगे की मुनियादी शंदनना का भाव

उर चरकारी विश्वेषक का मतलत है किस कारा प्रस्तृत विश्वेषक ; (A) जोम भभा भें मंत्री-भंच का सदस्य

(10) मिन का सदस्य को कैनी नहीं थे

(८) ओक सभा है। मंजी

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( ह) रेशमलेशिंग एकर

CE आस्त्रीय परिषद अधिनिम्न, 1861

1 DO MESTE करियद अविकास , 1842

अर अर्थन के हिकितान का भीन-का अनुरक्ति ग्राम पेनामते मा निश्लेष नहीं महता है:

(म) भन्नेद्र । १ । १३ अनुबद्धेद २।

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अर राष्ट्रीय विकास परिचय की करने स्थापित किया गया का : (A) 1948 (B) 1950 (C) 1951 (B) 1952

३६ स्वर्ग जननी ग्राम स्वरोजनार योजना का भारंभ भी 878 ndr :

प्रभा स्थित एवं। उरमा हिस्स एक

ा अने । १९९ टिंग ने नहिल्ला

37. उस हमील का का नाम है जो पहिलाओं के परेपरमत भीर मेर-परेपरामन कार्यी के अधिका भीर उधलमार्ट प्रदान मारती है :

(A) विक्रोरी क्रिक घोळना (B) राष्ट्रीय क्रिक मोज

(c) Faithg (b) स्थलकोनन

इंड. एक्कि भीर प्रशास समामार के जिए महिक और combon main (escar) and the leva & (A) स्वास्त लम्पुर (B) वेशकान

14. संप्रका राह्य भौकारिया विसाध छेपाटन सा मुख्य

(A) कियान अपे ही (B) विधान (D) Hite ६८० शेम

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ाउन प्रसार केम दी किसी के संस्कार (A)

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(० विसास के अधीलती के लिए भेटरराष्ट्रीय

( D) विकालक्षीय देहों हैं जॉकेक्टों की समाप्त क्या ui. कारणीय विकास (श्रेश +10) यर विश्व मामेला स्रोत

(का केवाहर (क) अवहाद (क)

( दा जींह नहानर्भ (१) नीन समीविक

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एए अस्त्र है रूमा की यसमाना है भनुक्ता, नहीं भन्तान १२७(२०॥ --) ते सत्र हुसाई

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( C) 714 (2010) us मू-एअ को की क्षेत्रका के अनुकार, स्वाकार के अनरराष्ट्रीय कर्ष के तीर घर जनाया और (म) मुनाबर (८) राज्य सम्मित्ता (D) विकास भाषित संस्थोत (दा मन

us. विशिवास्त्र व्यवस्था देश की विशेषक है (A) आसुनिक शहम (B) प्रेयरामा पूड्स (० ब्यापक जुल्म (क) आरोपित महा

un संबर्ध विद्यानतकादियों के शतुकार, स्वामध्य स्वी लिटांच कारत। क्या है :

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४८ भवतीय हेरिकाल की फिल अनुकूती की जनगरीय की खरबार के लिए कालय बनाया गांग है (A) 5-41' मीट 4-वी' (B) केवर 5-वी ( c) केवल ६-वीं (D) बन हें से मेई भीनती है

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# M.Phil. Entrance Test – 2014

## Subject: Police Administration

## Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Answe	er Sheet Serial N	0.	
Time: 60 minu	rtes Number	Signature of the Cana	
i une: oo mint	number	r of Questions: 50	Maximum Marks : 50

#### INSTRUCTIONS

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided
- Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- 5. Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- 6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- 7. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Ouestion Booklet.
- If you want to change an already marked answer, crase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

I.	AY	Ctata ar	Administra	tion			B) Polite or Courteous
	A) C)		Command		ar Dir	ection	D) Politics or Electoral Process
2.	Match	n the follow	ving:				
		Central A	Armed Pol	ice Forces			Year of Raising
	I.	Border S	ecurity Fo	rce			(i) 1939
	11.	Central I	ndustrial S	security Fo			(ii) 1962
	III.		Reserve Po				(iii) 1965
	IV.	Indo-Tib	etan Borde	er Police I	orce		(iv) 1969
		1.	II.	ш.		IV.	
	A)	(iii)	(ii)	(iv)		(i)	
	B)	(ii)	(i)	(iv)		(iii)	
	(C)	(ii)	(iv)	(iii)		(i)	
	D)	(iii)	(iv)	(i)		(ii)	
3.	'Polis	ce Zone' is	headed by	an office	rofth	e rank of:	
	A) D	irector Ger	neral of Po	lice		B)	Inspector General of Police
		eputy Insp			ice	D)	Senior Superintendent of Police
4.	Whic	h of the fol	llowing is	not a key	compo	nent of Com	munity Policing?
	A) C	ommunity	Partnershi	р			Problem Solving
	C) C	rganization	nal Transfe	ormation		D)	Community Dominance
5.	Sind	Who int in 1843?	roduced th	ne 'Royal	Irish	Constabulary	Model' of Policing in the territory o
	A) S	ir Jude Wil	liams			B)	Sir Charles Metcalfe
	S 100 100 100 100 100 100 100 100 100 10	r Robert Pe					Sir Charles Napier
6.	Mate	h the follow	wing:				
		Bool					Author
	1.	2000	The same of	litical Dev	elopm	ent in India	(i) Shankar Sen
	H.	Indian P	olice Toda	ıy			(ii) Aparna Srivastava
	III.		olice - A			(3.12)	(iii) Prabhu Datta Sharma
	IV.	Role of	Police in C	hanging S	Society	<i>y</i>	(iv) David H. Bayley
		L	II.	III.		IV.	
	A)	(i)	(ii)	(iii)		(iv)	
	B)	(iv)	(i)	(iii)		(ii)	
	C)	(iii)	(iv)	(ii)		(i)	
	D)	(ii)	(iii)	(iv)		(i)	
7.	Unde	er the Polic	e Act, 186	1, the 'Du	ties of	Police Office	ers' have been mentioned in:
	A)	Section			B)	Section 13	
	C)	Section			D)	Section 33	

	C)	Soli Sorabjee	D)	Julio	Francis	Ribeiro			
9.	Burea	au of Police Research an	d Developme	ent (BPF	(L&D) w	vas set up in which year?			
	A)	1965	B)	1970					
	C)	1975	D)	1980					
10.	Whic	h of the following is not	a Departmer	nt of Un	ion Mir	nistry of Home Affairs?			
	A)	Department of Border	Managemen	t	B)	Department of States			
	C)	Department of Externa	AND THE RESERVE OF THE PARTY OF		D)	Department of Home			
11.	Whic times		describes th	ne natur	e of Co	orrectional Administration in modern			
	A)	Retribution and Incapa	acitation	B)	Retri	bution and Prevention			
	C)	Prevention and Deterr		D)		rmation and Rehabilitation			
12.	Read	the following statement	s about the F	orms of	Punish	ment and answer accordingly:			
	I.	Flogging as a mode of	f punishment	was ab	olished	in India in 1955.			
	<ol> <li>Section 53 of the Indian Penal Code provides forfeiture of property as a form of punishment.</li> </ol>								
	III.	The provisions relating the Indian Penal Code		confine	ment a	re contained in Sections 73 and 74 a			
	IV.		committed b	y child	or insa	ne is punishable with death sentence			
	A)	I, II and III are correc	1	B)	Only	I and II are correct			
	C)	Only I and III are corr		D)	the second second	III and IV are correct			
13.	Whic	ch of the following is not	correct abou	it the Ce	entral Ja	ails in India?			
	A)	Central Jails are admi	nistered by C	Central C	Govern	nent			
	B)	Central Jails are admi							
	C)		COLUMN TO THE PROPERTY OF THE PARTY OF THE P		The state of the s	period are confined in them			
	D)	Central Jails have larg	ger capacity t	han oth	erjails				
14.		ch of the following was e 1950s?	a UN expert	, who w	orked i	n the field of Prison Reforms in Ind			
	A)	Sir Charles Schultz		B)		Walter Reckless			
	C)	Sir Donald Taft		D)	Sir I	Oon M. Gottfriedson			
15.	Whic	ch of the following is no	t true about F	Parole?					
	A)	Parole is meant for th			e priso	1			
	B)	B) Parole is granted by the Parole Board							
	C)					er emergent social obligations			
	D)	Parole is an unconditi	onal release	of a Pris	soner				
16.		has defined 'Crime' as e instance of the state?	a legal wron	g the re	medy fo	or which is punishment of the offend			
	A)	John Gillin	B)	Cros	s & Jor	ies			
	C)	Donald Taft	D)	Blac	kstone				
			Pag	ge 2 of 6					

In 2005, the Government of India set up the Police Act Drafting Committee. It was chaired by:

B)

K. Padmanabhaiah

8.

Fali Nariman

17.	Whic	h of the following is true al	out the Cl	lassical	al School of Criminology?					
200	A) B) C)	It explained crime in terr It believed that man com It placed reliance on free	mits crime	100	determination o influence of some external spirit					
	D)	It laid greater emphasis of	n personal	lity of t	the offender rather than his criminal act					
18.	The r	number of crimes per 1,00,0	00 populati	on is k	known as:					
	A) C)	Crime Division Crime Incidence	B) D)	0.000	me Indicator me Rate					
19.		The concept of 'White Collar Crime' found its place in Criminology for the first time in 194 because of publication of a research paper by:								
	A) C)	Cesare Beccaria E. H. Sutherland	B) D)		brief Tarde sare Lombroso					
20.		Read the following statements about The Juvenile Justice (Care and Protection of Children Act, 2000 and answer accordingly:								
	<ol> <li>Chapter II of the Act contains provisions for the 'Juvenile in Conflict with Law'.</li> <li>'Juvenile' or 'child' means a person who has not completed sixteen years of age.</li> <li>Chapter III of the Act contains provisions for the 'Child in Need of Care and Protection'.</li> <li>Chapter IV of the Act contains provisions for the 'Rehabilitation and Social</li> </ol>									
	IV.	Integration'.	et commi	is pros	Systems for the remainitation and t	00010				
	A) C)	I, II and IV are correct Only I and II are correct		B) D)						
21.	In which year the Code of Criminal Procedure, 1973 was amended?									
	A) C)	2009 2012		B) D)						
22.	According to the Code of Criminal Procedure, 1973 a complaint means:									
	A) Police Report									
	B)	97.40 P. 100.104.104.104.104.104.104.104.104.104.								
	C)	Any allegation made ora								
	D)	A known person has con	imitted an	offence	ce against the complainant					
23.	Which	ch authority can appoint a J	udge who	preside	les over Court of Session?					
	A) C)	State Government Supreme Court	B) D)		gh Court blic Service Commission					
24.	The	State government can appoi	int Special	Execut	utive Magistrates for					
	A) C)	Particular Areas Both A and B	B) D)		formance of particular functions ne of the Above					
25.	Evid	ence may be given of								
	A) C)	Fact in issue Relevant Facts	B) D)		et in issue and relevant facts the facts					

26.	For	what purpose a court can	appoint a	ın exper	rt?					
	A) B) C) D)	To seek opinion upon a To seek opinion upon a To seek opinion as to id All of the above	point of so	cience or	art	_				
27.	Wh	Which one is not an offence against the State under IPC of the following?								
	A) B) C) D)	Sedition Waging War against the Collecting Arms with in Collecting arms	Governm	ent of In	ndia					
28.	Wha	What is the punishment for intentionally giving a false evidence during a judicial proceeding:								
	A) C)	May extend to 3 years Not less than 3 year and		B) D)	May extend to 7 y None of the above	ears and fine				
29.	Who	Who can lodge a FIR?								
	A) C)	Any Person A Police Officer	B) D)	A Vi	ctim f the Above					
30.	Und	Under what circumstances a police officer can cause a search to be made in any place?								
	A) B) C) D)	S/He felt like so S/He has reasonable gro If the court think it mus None of the above	unds to be							
31.	Und	er Section 172 of the CrPC,	the diary	of proce	edings shall contain					
	A) B) C) D)	Statements of witnesses Places visited during inv Time of Information reco All the above	estigation		vestigation					
32.	The	The right to claim bail under section 436 CrPC is a								
	A) C)	Discretionary right Optional right	B) D)		lute right ie above					
33.	Whic	ch one of the following is no	ot a scienti	fic techr	nique of investigation	1?				
	A) C)	Brain Mapping Narco Analysis	B) D)		writing					
34.	Whic	th one of the following conv	ention is r	related to	o terrorism?					
	A) C)	UDHR UNTC	B) D)	UNC/ CRC	AT					
35.	When	n a police officer can arre izable offence?	st a perso	n witho	ut a warrant to prev	vent the commissio	n o			
	A) B) C) D)	if the person who design if the offence is against the if the offence cannot be All the above	ne police o	fficer						

36.	Unde	r what circumstances an arrest	ted perso	on can	be discharged by the police officer?
	A)	furnish own bond		B)	bail is granted
	C)	special order of a magistrate	3	D)	All the above
37.	The v	vord 'Forensic' originated from	m a Lati	n word	, which is:
	A)	Forsenic		B)	* Forensis
	C)	Forosceine		D)	Le forensike
38.		the elapse of time, the chance from a crime scene:	s of gett	ting me	aningful physical evidence and clues about a
	A)	Increase		B)	Decrease
	C)	Neither increase nor decrea	se	D)	None of the above
39.	In for	rensic cases, writing, printing, led with the help of:	or othe	er mark	ings under obliterations on documents can be
	A)	Infrared reflected photograp	phy	B)	Visible Light photography
	C)	Ultra Violet Photography	11.5	D)	Stereo Photography
40.	Whic	h of the following is not a hig	h Explo	sive?	
	A)	TNT		B)	Gun Powder
	C)	Lead Azide		D)	RDX
41.	A lat	eral pocket loop is a finger pri			
	A)	The recurving ridges of loo	p make	a small	pocket in the centre of the pattern
	B)	Two interlocked loops in w opposite side of the digit.	hich the	lines t	raced from the two cores emerge on the
	C)	Two interlocked loops in w	hich the	lines t	raced from the two cores emerge on the same
	D)	side of the digit.  A loop and an arch intertwi	ined in a	single	pattern.
42.		ministration has to do with tives." This is said by:	getting	things	done with the accomplishment of defined
	A)	Henry Fayol	B)	Woo	drow Wilson
	C)	Luther Gulick	D)	Lyne	dallUrwick
43.	NPN	1 believes in:			
	1.	Devolving authority	2.		ormance control
	3.	Developing competition	4.	Rest	oonsive service
	A)	1, 2 3 are correct	B)		4 are correct
	C)	1, 2, 4 are correct	D)	Alla	are correct
44.	In L	ine and Staff Organization:			
	1.	Authority flows vertically		zontall	y.
	2.	Staff has the power to com	mand.	e company	to a commitment
	3.	Staff's are employed to pro Staff function is an executi			ine executives.
	4.				2:
	A)	Only 1 is correct	B)		y 2 is correct y 4 is correct
	C)	Only 3 is correct	D)	CHIL	y -1 13 collect

45.	Whie	ch of the following are the princ	cipal du	ities of	a supervisor?
	1. 2. 3. 4.	Understanding responsibiliti Improving work methods an Training personnel. Setting policy guidelines.			ion.
	A) C)	1, 2, 3 are correct 2, 3, 4 are correct	B) D)		4 are correct re correct
46.	Max	Weber refers to which of the fo	ollowin	g types	s of bureaucracy?
	1. 3.	Ideal type of bureaucracy. Patrimonial type of bureauc	racy.	2, 4,	Paternalistic type of bureaucracy. Rationalist type of bureaucracy.
	A) C)	1, 2, 3 are correct 1, 3 are correct	B) D)		4 are correct and 4 are correct
47.		ch of the following writs is issu llegally detained?	ied by a	an appr	opriate judicial authority to free a person who
	A)	Mandamus	B)	Cert	iorari
	C)	Quo-Warranto	D)	Hab	eas Corpus
48.	The	administrative head of the state	admin	istratio	n is:
	A)	Governor	B)		f Minister
	(C)	Chief Secretary	D)	Fina	ncial Commissioner
49.		n a researcher visits personally nique is called	to the	respon	dents and fills up the information sheet, the
	A)	Schedule	B)	Que	stionnaire
	C)	Interview	D)	Obs	ervation
50.	Arra	nge the stages of report writing	in des	cendin	g order
	2. F 3. P	collection of Data ormulation of Concepts reparation of an Outline comparison and Interpretation			
	A)	2, 3, 1 and 4	B)		, 4 and 1
	C)	1, 3, 2 and 4	D)	2, 4	, 3 and 1
			75	7474747	

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(a) मान अग्रहा प्रकार हमारह तहा है। कि मान नहा

ाट आहेता की एकता अधवा एसकान निर्मेश

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में कारामा तर है है कि में बड़ीत है मीराज EAST 工, 臣 彩工 应 网络 筆 不知事和工部之 我 到 著

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14. . महरूप, के सारीय अंग में कम है, स्था ने हहिमास्ति हमी है कि है जिल सहस्रकार की राज्य करते है अहते हैं INT STEEL STEEL ומו-ולה בולד חבות נחו १८ अंगालंड देवर (क) विलेशहरीन

त मत्याच-विकास है वक्तिची हम्म है को है भीन-ता हमी है ा वह दी भवतात्रमा भी कि सदस्य किही सहदी दह के सहद के अवसीय साहस्यहर करता है

८०० होकला हवातेला है। इह दें भरीका देखा

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19. आत्रकार विकास है। सर्वेदकीय आत्रकार की अवकारण प्रदानी मद ११५१ हैं, नेसद हैं, आई किए का संख्या दिस है स्थितियां DE STATES OF !

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\*\* ताल - वाड, (बालकें की वेसामान कोंद्र खरका) अधिविवस उद्यान में को है। विकासित समान पढ़ें भीड़ तस्मुकार असर हैं।

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थ रह अभिक्त हेरिक, 1972 दें श्रेंग्रेस्ट कि वर्ष है किक लगा

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मंत्र अभिका संवित्ता, १९७७ के अनुसार, शिकायत का मतामा है:

100 एडिस्स विसेट

ार्थात मं स्थान है के सामन है के से सम्म भारति

्य देशकीय के एकार्य समया भीविक काला विविद्य केर्य

्या व्यास्ता के क्षेत्रक में क्षित्रकार में किया अवस्ता है।

24 38 - मामानीक की विश्वित केंद्र-का व्यक्तिकारी कर रासका है

ो हिम्द्र कीर भी भवसहात करता है।

(A) राजा, लबकार (B) ठेवल - जामानाम

(दर कर्तन - सामकात (क) जीव केंबर कराया

या. राज्य भरतार विश्लेष सार्यकारी बंडाव्यीको सी विद्यापा फिल के

हिल्ला कर जिल्ला

(4) विशेष केती के लिए

असी में किस की मीतन करहती की दिल

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प्रकार समीतिक और प्रकार में किए में मेह (स)

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ार भवात्मत्र विशेषक सी निमुधित किए व घोटान के लिए करती

क्टी दें रिक ग्रह उस समह में इस्ता विहेरी (क)

ाम जिल्ला अला मला में तुमते पर समाजेरी में जिल

ाटा विकाली की पहचान करने के किए ठाफ लेने के लिए.

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(B) भारत लंदकार के किन्दु <u>पह</u> से अने रहता ( a) अवस्त प्रस्कार के विरुद्ध <u>मुख्य के के अवस्ता</u> है ब्रियान

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IN EQUITE ETZ TIEN १६ -मापिस कार्मकर्ष के छम्छ ज्यानुस्त कर अनुसी शक्तरी देते के

190 THE BIRTH # :

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(m अल्बिस हैं है देही भी तथा है

19 FIR कील इ.ज. सरका एकता है।

(८) भीकित वस्तित EAST OF THE EAST

(७) उर्धानन नभी to plan whitel

उन किन परिविभित्रमें के अधिक अधिकारी विकिश ताल की

तमधी मरक रूसक हैं ! (A) यदि वह ऐका सरका संख्ता | यादती की

(B) प्राव्हि उस में पास प्रेश करने के वित्र अनुसन आसार हो

दि मिलास डिक्स करने करते होता है

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ar care की बारा 172 के अवस्थित, मार्थकर्ष की आपरी में

: arts राजीवधील पालक के किएक देंगी है लाड़ी में जारीय के करिए हैं

तान असी महायत ज्ञाहर है जिल्ला १४३ ्टा भवितवारी इंग्डेट उसार कुन्डा का एसस

AND SEPTEDE UN

an and use care के क्षेत्रकी ज्ञानक की के कार्यक CENTRAL PURSON (B)

(क) विजेवनकित्वार Car Hartery whomas (b) Brigary Hall

 का तकारीका की नैकारिक विकास क्षेत्र-क्षी तका के । १ छ। निस्वार्त (व) शक्तिका का सामित्रका

(१० म् दिस्ताप es Bigg Asimon

अ. कींन-का कर्यात्मन अर्थनागर से वेनेरिया है : INJUDUR LBJUNCAT COUNTS IDICAL

उठ पुरित्रक अधिवासी विसी बेटारित की करतेने अवस्थ है क्षेत्रते के वितर वरकर के नभीर कव विरक्ताण

r Ar फ़िंड के कारान्य भी फ़ेलात बनाई है, महिता

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( D) ZHOLET END

२६. किंत परिहिम्मिक में मिरमसर ब्यंपित सी छित्त अप्यादिश किया जा स्वता है :

लान्य सम्बद्ध सम्बद्ध पर (4) 3/97

18) जसमा किस **स**ई है

(र) दराजीम क विशेष हमा

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37: 5002 " personnie" of other fate with ! 子野等:

(B) Foreword (A) PEAGETHE

( E) PARASCRÍNA ( B) LE forensisse

उम कार के बीचने हैं, अवसादा दुश्य है अल्पीकी जला भीर संसेत्र किस्तो के अनुसर -

110 可证明音

(11) 不可可可以 हैं लिंक ताम विकास अर्थ में मिल ता एक

(क) अपर्यंत्र में दे गृह भी नेशी ह

39 क्षेत्रेरूक, केलें में, किसाई, ब्रांस क्लाक करना निक SEARCH THE A PRESTRE AND E. SHAD OWN हराया है इसीय म समा है :

राज अवस्था अधिविधाना कोलेनाची

का प्रत्यस अनाम कोरोहाकी

विचार्यात्रीय विचालिका १३१ (10) विभिन्न-कोशेशकी

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THE ON (B) वंदर्द

(टा टेर्ड अज्ञाहर (का RDX

कर किसाबी केन का मुक्तका अंगरिक कहा है विश्वके इह BATER PERMITTED & FRIT

(वा मान्ये भी मोनव्हेंबर अमीरे' मोन्नी देन को वेटरे क जिल्ला हा मानी हैं।

ता है। मंतर-मिलाव समाहे किया है की में दी है रेया के किया की उत्तरी और दिसाई देती।

रा को राज्य-ग्रीमात त्यादी किन है हो होते हैं। देखाउँ भेगित के हतात और दिस्कई देश

(1) तस्ते और काद की एक देश हैं कहर (在17 July 2)

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( ए सुभर मुस्तिः, रश्रातिन्द्रधः उत्तिः,

ः है तस्य जायही के तयी लगत है।

ाता का भिन्ना असमित निवंता

3 अधियोगिक को निकारिक करना

u. अतिकित्यारण के केन

(A) () 2, 5 日本 著。 (B) 3, 5, 4 万利 著

(C) १०३० मही हैं (D) छ १०५ लाइन और स्थान संगठनों में :

ा छता का प्रकार अहँद और छलता होता है

के मार्क कामानीय का स्टांक मारा के माराव कर

3) हरता की कह किए लेखान करता है तारि सकत प्रमेचने की संतार है धर्म

म हराक के उसके कार्यनारी उसके होता है

1的 李明 1 年期 第 (11) 京田 7 年制 岩

िक्षित म समर्थ (11) ई दिल ह कार्य (1)

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ा अवनी देशिया की विस्तेत्रस्थि के कालाना

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न भूतार कामी की सुनेश (सरस

3 - मेंबरशासी की भागविश्वाद किस्त

५- जीवरमार्थ की विकेत्राची विकास

8 BET 1 EU 10) & MET EUU (11)

10002 在對者 1000年期2日日時業

(1) हिट्टानुनी तर्शके के ननश्चन क्यांकित की शिक्त करने के लिए अवस्थान न्याधिक आदिलामी झाला क्रीन क्या दिन नार्श की गाँव वाली हैं:

LAI GERIAGE

१८३ अस्प्रेसमा लेख

(C) MACHETE- TOTAL

का मंद्री जनमधिनशा

us राज्य में प्रशासन का अक्रमानिक पारवास है।

( A) THE MASTER (B) THE PARTY OF S

(c) प्रतिक स्थित (क) नित्त कार्यक्त

14 जन कोन्यमंत्री जरूतेह के लाग खन जाता है और मुन्या गर्य की अरक है, ते इह रक्तीर की सहते हैं:

PETER (A)

एउ। अध्यानली

C.C. TO SHIP FOR

(1) मेहल

्र विक्रीड किरवर्त के करती, की जीते की कोट (इससाय) कर के जनवीज़ हैं

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Question Booklet Series : A Question Booklet Sr. No. 021102

# M.Phil. Entrance Test - 2014

Subject : Sociology

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Ansv	ver Sheet Serial No		
		Signature of the Cana	didate
Time: 60 mi	nutes Number	of Questions: 50	Maximum Marks: 50

#### INSTRUCTIONS

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Ouestion Booklet.
- If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted
  inside the examination hall. Use of calculators is not allowed.

1.	What	What do we call the act of acquiring knowledge with one's senses?								
	A) C)	rationalism speculation	B) D)	7 1 1 1 1 1 1 1 1 1	ricism riment	90-1				
2.	Rese	arch Hypothesis must be all o	f the fol	lowing	except					
	A) C)	Free of researcher's values testable	ē.	B) D)	Derived from specific	previous research				
3.		experimental research design is to demonstrate	gn the p	urpose	of setting up ex	perimental and co	ontrol			
	A) C)				Manipulation Generalization					
4.	Qual	Qualitative research is used in the following conditions								
	it is typically used when a great deal is already known about the topic of interest it relies on the collection of non-numerical data such as words and pictures it is used to generate hypotheses and develop theory about phenomena in the world									
	D)	it uses the inductive scient				4				
5.	According to Karl Marx, the basic conflict in Capitalist societies is between									
	A) B) C) D)	owners of enterprises and Corporations and labour u governments and business those who own the means	nions corpora of produ	tions action ar						
6.	Post modernists say there are no "facts" about the world. What they say we have instead?									
	A) C)	Guesses Interpretation	B) D)	noth	ing of the above					
7.	Which of the following is a not type of non-probable sampling?									
	A) C)	Stratified Sampling Purposive Sampling	B) D)		ta Sampling venience Sampli	ng				
8.	Rost	ow's economic stages are								
	A) B)	B) the traditional society, the preconditions for takeoff, the takeoff, the drive to maturity and the age of high mass consumption.								
	C)	ALL								
	D)	the learning curve, the ag to maturity	e of hig	n mass (	consumption, pe	Strakeon, and the	ditto			

A) economy C) family D) educational institution  10. An organization in which activities are divided into precisely defined way, roles arranged in a hierarchy or chain of commands. It is called a/an A) army B) bureaucracy C) church D) Government  11. A devaluation of the elderly that results in discrimination against them is called? A) Ageism B) Sexism C) Prejudice D) stereotypes  12. Which Classical sociologist stated that every society has a problem with criminality Crime is normal in Society? A) Herbert Spencer B) Karl Marx C) Max Weber D) Emile Durkheim  13. To say that Science is objective means that A) Scientists have no personal values B) Scientists can set aside their personal values in order to discover the truth	imate
arranged in a hierarchy or chain of commands .It is called a/an  A) army B) bureaucracy C) church D) Government  11. A devaluation of the elderly that results in discrimination against them is called?  A) Ageism B) Sexism C) Prejudice D) stereotypes  12. Which Classical sociologist stated that every society has a problem with criminality Crime is normal in Society?  A) Herbert Spencer B) Karl Marx C) Max Weber D) Emile Durkheim  13. To say that Science is objective means that A) Scientists have no personal values	
C) church D) Government  11. A devaluation of the elderly that results in discrimination against them is called?  A) Ageism B) Sexism C) Prejudice D) stereotypes  12. Which Classical sociologist stated that every society has a problem with criminality Crime is normal in Society?  A) Herbert Spencer B) Karl Marx C) Max Weber D) Emile Durkheim  13. To say that Science is objective means that A) Scientists have no personal values	s are
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C) Prejudice D) stereotypes  12. Which Classical sociologist stated that every society has a problem with criminality Crime is normal in Society?  A) Herbert Spencer B) Karl Marx C) Max Weber D) Emile Durkheim  13. To say that Science is objective means that A) Scientists have no personal values	
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C) Max Weber D) Emile Durkheim  13. To say that Science is objective means that  A) Scientists have no personal values	y i.e.
Scientists have no personal values	
Science is fool proof way to achieve knowledge     Scientists strive to prevent their personal values from affecting their investigates.	ation
<ol> <li>One of the disadvantage of using Observational techniques in sociological research is</li> </ol>	s that
A) they focus on behaviour in real –life situations where people are not coaxed by investigator     B) people behave much as they would if they were not being studied     C) the data gathered are often difficult to analyze and are dependent on investigators own interpretations	
<ul> <li>they can only be used to study very large numbers of people</li> </ul>	
15. Which of the following Sociologist took position that sociology should remain a va- free science?	value
A) Alvin Gouldner B) Max weber C) Karl Marx D) Emile Durkheim	
16. The statement "A society is a system made up of interrelated and interdependent parent contributing to the operation of the whole " would be most consistent with	parts,
A) Functionalist perspective B) Conflict perspective C) Ethnomethodology D) Interactionist perspective	

17.	Peop	People who are related by virtue of marriage, such as husband and wife are called								
	A) C)	Consguineal kins Bilateral Kins		B) D)	Affinal kins Exogamous kins					
18.	The socie	The process through which the influence of religion is removed from many institutions in society and dispersed into private realms is called								
	A) C)	Modernization Secularization		B) D)	Emergence of Civil Religion Profanity					
19.	C. W	right Mills is credited with d	evelopir	ng the	14.5-4.00-4.00-50					
	A) C)	Iron Law of Oligarchy Pluralist model		B) D)	Power Elite model none of the above					
20.	Whic	Which of the following is not a distinguishing feature of Capitalism?								
	A) B) C) D)	means of production & dis goods and services that peo there is a free competition each person possess a right	ople nee among p	d are produce	oduced and equitably distributed rs and consumers of goods					
21.	Theo rathe	Theoretical perspective that focuses on every day social interaction among individuals rather than on large societal structures such as politics and education								
	A) C)				Functionalist Neo Functionalist					
22.	Mixe	d economies are based on a n	nixture o	of						
	A) C)	Capitalism & Communism Capitalism & Socialism		B) D)	Socialism & Communism Socialism & Laissezfaire					
23.	The study of the size, composition and distribution of human population and how these factors change over time is termed									
	A) C)	Social ecology Population dynamics		B) D)	Demography Morphology					
24.	The c	The conflict perspective has been criticized for								
	A) - B) C) D)	overemphasizing the preval its conservative approach we disregarding the prevalence downplaying the fact that dysfunctional for another g	which sup of stabi t social	pports e	xisting social conditions					
25.		ranking of people into a hier ty are unequally distributed is			the resources considered valuable by					
	A) C)	Social structure	B)		stratification					

			-4							
26.	The	The best single predictor of people's life styles is their								
	A) C)	age income	B) D)	socioeconomic status degree of social participation						
27.	Cere	monies that make and celebra d	te peo	ple's transitions from one status to another a						
	A) C)	rites of passage puberty rites	B) D)	life rituals age rituals						
28.	Whe	When new researchers use data sets from other researchers it is called								
	A) C)	primary data personal data	B) D)	secondary data official data						
29.		When a member of the same generation changes over to new occupation of high prestige it is called								
	A) C)	Intra- generational mobility Educational mobility		B) Inter-generational mobility D) Occupational mobility						
30.	Sociologists Louis Wirth argued that Urban Life shapes city dwellers by creating									
	A) C)	an associational point of view an "urban Consciousness"	w	B) a community feeling D) a "city Group"						
31.	In studying Suicide, Durkheim used									
	A) C)	Surveys Observation	B) D)	Experiments Government Statistics						
32.	According to Malthus's views of human population growth									
	A) B) C)	Contraceptive was the ultimate Population would continue starvation, disease and war	ate ans	ctive in controlling Population Growth wer to control population grow ultimately checked by deaths due from restrictions in the food supply						
33.	In C	Observing the urban develop	ment	of the city of Chicago during the 1920 Mckenzie formulated which is called						
	A) B)	concentric zone theory multiple nuclei theory	B) D)	sector theory the theory of transition						
34.		process of cities growing outv	vard fr	om their central regions creating 'additions'						
	A) C)	Urbanization Migration	B) D)	Sub-urbanization Metropolitanisation						

35.	Feminism supports									
	A)	Patriarchy	B)	So	cial equality of sexes					
	C)	Gender stratification	D)		one of the above					
36.	Who	has given the concept of 'Ind	lexicality	y'?						
	A)	Harold Garfinkel	B)	Erving Goffman						
	C)	Alfred Shultz	D)	Pe	ter Berger					
37.		tify Series I (Theorists) with ver using code given below:	Series	II (S	chools of thought) and select the correct					
		Series I			Series II					
		(Theorists)			(Schools of thought)					
	a.	Phenomenologist		1.	Garfinkel and Nicholas Timasheff					
	b.	Ethno methodologists		2.	Theodor Adorno &Max Horkheimer					
	c.	Symbolic Interactionists		3.	G. H. Mead & Goffman					
	d.	Critical sociologists		4.	Edmund Hussrls & Alfred Schultz					
	A)	a-1,b-3,c-4,d-2	B)	3, b-4, c-2,d- 1						
	C)	a-4,b-3,c-1,d-2	,c-1,d-2 D) a-4,b-1,c-3,d-2							
38.	The term 'sustainable development' was first coined by									
	A) World Health Organization									
	B)									
	C)	C) World Commission on Environment and Development								
	D)	UNICEF								
39.	The	Theory of Social stratification	Offered	l by I	Kingsley Davis and W. Moore is called					
	A)	Multi dimensional theory		B)	Conflict theory					
	B)	Functional theory		D)	Structuralists.					
40.	Loiu	s Dumont conceptualized cas	te in terr	ns of						
	A)	social differentiation and untouchability								
	B)									
	C)	dialectical opposition of pu	ire and i	mpur	e					
	D)	functional unity and different	entiation							
41.	Whi	ch Sociologist is associated w	ith deve	elopii	ng theories of Middle range?					
	Δ)	Talcott Parsons	B)	Ra	adcliffe Brown					
	C)	Robert Merton	D)	W	ilbert Moore					

42. Which of the following is not a feature of globalization?

	A) B) C) D)	Increasing awareness of the The extended power of natio Destruction of distance thro Stretching social relations b	on state	es. mmunica	tion technologies	s			
43.	Triar	igulation involves:			1	S****			
	A) B) C) D)	B) Consulting the works of three other researchers.     Consulting the works of authors with the same perspective as the researchers.							
44.	Augu	iste Comte called the forces that	at socie	eties con	tain for conflict a	and change			
	A) C)	social statics social evolution	B) D)		dynamics equilibrium				
45.	The	most important source of sex re	ole soci	ialization	has been and ren	nains			
	A) C)	Family Media	B) D)	peer -g all the	The Court of the C				
46.	Whic	Which of the following is not a function of research design?							
	A) B) C) D)	guiding the process of collections the researcher to describe the selecting a topic of research determining whether research to different situations	aw inf	erences o	f cause effect re	elationships			
47.	Who	is called the 'Crusader of Dal	its'?						
	A) C)	Mahatma Gandhi Babu Jagjivan Ram	B) D)	B.R. /	ar Lal Nehru Ambedkar				
48	white	theory divides all countries the the more developed nation tion.	into c as keep	ore,perip	heral and semi- s developed in	peripheral nations, it aweak and dependen			
	C)	global-dominance theory world system theory		B) D)	multi-national neo-modern gr	owth theory			
49	Α.	group of theories holding the	at indu advan	astrial na tages of i	tions keep Thir ndustrial nations	d world nations in			
	A) B) C) D)	commercial exploitation the dependency theories economic superiority theory none of the above							
50		ntify Series I (Theorists) with ag code given below:	Series	II (conti	ribution) and sel	ect the correct answer			
		Series I (Theorists)			Series 1 (Contribut				
	a.	Talcott Parsons		1.	Positivism Structuration	theory			
	b.	Erving Goffman		2.	Structuration Pattern Varial	MARCH 2010 (M)			
	d.	Auguste Comte Anthony Giddens		4.	Total Instituti				
	(I.	Antitionly Changers				(MH)			

B) a-3, b-4,c-2,d-1

a-4,b-1,c-3,d-2

a-3,b-4,c-1,d-2

a-2,b-3,c-1,d-4

मार के अवासी अन्तिकों ज्याक ग्रहका करते की हम क्या करते हैं। (B) WEINAME 13 मधनायः

ा परिमाण्या

(३) जागेत

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का क्रीनामकी के मानते से मानत

का दिशाली क्रोका के जरावन

(८) करीकालीय

w Bala वर्षणालाय, क्रोन्स (अमस्य है), अमेरणालम्ब भीव निर्मणाम समूह ो स्थापित करने का संघोजन क्या दक्षाता हैं :

(1b) विमन्द्रात् के शहर के (8) 3000

(3) मामान्यीकारण to Bright

मुनारस्य क्रोप का अमेग विकासिक क्रिकी में किया जात-

(A) १६ के अस्तेम विश्वेषकर कर निका जाता है जात संचिपूर्ण विस्ता के मारे कें! पहले के ही मधीपन जानवानी ही

180 पर मेर-केटमालमा अप्टा में लेखरूक वर विभिर THE W. SER OF MERC SHE FOR

(0) स्काम अयोग विद्या से संबंधी है संबंधा से प्रविकासमार्थ ननार्त और किंद्रपत्र विकरित्त करते हैं किया जाता है

(1) हर आगामानात्मार नेकानिक विकास का प्राप्ता 4. EAT &

कार्य मार्थक के भारतार फ़ॅमीनवी समाने में मुनियादी शंसर्व दिल के क्टिनियान है :

(1) अवाम के मादिक और मानेक

(व) नियम और मज़रूर क्लू

(ा स्टबारे भार कार्रकारी निमम

CON के अल्लाहर के कालाती के काशिक में भीर तो आहे मार की सजवहीं के किए नेचते हैं

उत्तर- अन्तुरियमतवादी महते हैं कि विश्व के संबंदा है केर्द्र प्रथम मही है। ये ने सकते हैं, इह की अग्राम हम महते

(B) 343(1) KINESS (A)

(c) व्यास्त्रक (b) अपर्युक्त हैं है की की अभी है रीय-संभारत सम्बार-कार की किस्स कीय-सी नहीं हैं।

(A) स्वरीकृत नम्ता-यम्त

(B) कोटा नामूना-चमन

(८) विश्वासीय समूत्रा-समूत्र

(का मुर्तिका सम्हा-नामन

रोहरे मी अधिक सावस्थार हैं : ाम समाजा है जिल पूर्वाचेताई, समाजा, परिवरकारे

विए बेरमा, और रचनात्मक विनादा की अवस्था

(10) परंपरागत कलात, सम्बद्धाः के जिए वृत्तीवेदार्ट , समीयात प्रस्तिता है जिए तेरा अस्य सामित DUNIE OF WHILE

to sunt के जिल दूर्वाचेसार, प्रमान्ति, परिणक्ता के किए देखा, भीर अस्त्र साम्बर्सिक अपभोग की

STATE VILL (D) अधिकाल न्या ; अरून स्ताम्बर्टिक, अवस्था की अवस्था, Emma sund materia, wit usewan in the

, कामध्य प्रस्था, कमान की केन्द्रीय केंस्था है, यह आहे। है प्रिकेट संबंधी की स्थापिक करती है और नई पीदी का समामिक्स महारी है। यह है ?

180 जनमिक समित्र CAT WILL HARRIST

CDO THE ET WIT to Thene

·· जिल संस्था में गतिविकायें के निक्तित सभी तरीने है किया जाता है, पश्चिमार्थी के लेवाज्ञान अवक कार्यकों की सङ्गी में, प्रस्था की लागी हैं, वह सकते हैं, ।

> (A) \$575 (8) नी के देशकी ६६१ सर्व the REAL

मुक्ती दे तर ने नहीं ताम मार मार कार ने ने देन हैं। केंद्रमात्र रहता जाता है, इहे कहते हैं:

> (65 河南河) ८ छ । जिल्लास

CO GETTIN Chi Es- sisteme भारत प्रदेश में वर वर है दिलानी-सामय विस्तितास वसी भा असर की जात है जाराम जानाव का जानाव कि मार्चा के के सवराय हवालिक है। (10 हर्ने हेंबर (10 कर्न लर्क

(का निमान्त्र दहराम १६) (६) रेनिह नेमार

12. यह महार कि विकास महत्र निष्ठ है, इस मा मनावन है कि — (म) विशासिकों के कोई अपनितास सहस्र मधी देखे

१ का बैजानिक सहस्रका भी तनावा सदने हैं जानिकात च्छिते के भवता रस्य क्लाने है

१ ८) विकास साम जाता मानो का शहराबद वारीका है

(1) में अरिक्त अवते औपर में, अवते व्यक्तिमात्र मुक्तमी हो अभावित होने है सेकते का अधाव करते हैं

u. समाज नैसानिक क्रोका में वेश्वणमूख्य तक्त्रमिते का वर्षेत्रा मध्ये की एक करि मंद्र है कि -

(क) के कामनाविक जीवन भी (Eulah) है वसवसार पर केरिस सम्बर्ग है तरों भुएं में खुनम्पू देश तिरावाण नकी.

कि दहि लेगें की नात्रवृक्त कर क्रेंच व भी कर, तो वे ह्यामानिक नम्महार महाने हैं

(ट) इसट्टे किए अपन का निकासका अकार मुक्तिक होता में भीर घर जैसकी भी भवती लॉरमाओं पर विभेर

क लिकि में तावान केनीयडाम अवके ताताय का एड एक। के वामने का वामी कारी के दिश्य द्वापालक

15. किस समात-विकासी है। यह दें तथा निका कि समातिकाल सुरूव-दिस्यका विकास सह :

TRY HALP ALLS (A) WETT FIFTHE (1) ईमाइल इतिह रदा सार्थ जारेश

16 EE अध्यत्र कि ' समाज अंतर- एंड्रेसिज और अंतर-निर्माट को की का का तेल है, जिहा के बरेक क्षेत्र समीय के स्वतालय है। अध्या क्षेत्राद्वात हैता है। दिस दे अध्याधिक maley Bitte ?

१ का असामीनाथी माधिकेसमा (अ) संदर्भ माधिकेसम

१८३ भानव जाति अकाती- विस्तात

(D) अंतर-बार्वजादी परिवेदप n में नेमिक्स के अल्पार पर होतेबार है में कि कि प्रति की

यहारी, उसके कस्त्रे हैं: (१३) इसन होनंदर्स (१३) देवतिहर, होनंदर्स ८८) (जयसीम कंनेंच्या १ का विकाशीम-विकाह कंनेंच्या

18. जिल्ल प्रतिका क्रारा अर्थ के अभाव को समाव भी महि संस्थानी में हे सारत दिया है, और मिनी की में हिस्स मेंट हैं माराने

(A) आणुतिभीकरङ्ग्
 (A) नार्ताक, कर्म के भाविकवि
 (C) कर्मिकरोक्तन।

เอง พระเทิสง

ार ही स्टाइट किस के मेरी कि हसकी करते का नेस विका ara \$ :

१का काल्मतेन का लीह निकास

(अ) अकिंग एक्सेश मॉडस

८० सहस्रकारी मोउल

(1) 2교급선 첫 후 박존 V/너희 출

an . प्रेरीकर क विकेद वाहार केंच-ता नशी हैं:

CON TEMPOR WE CHARM I FINANCE OF HEBITALL 医安加 老神 美

(का पृथ्) की अंशता की वस्तिक्षी भूत हवास्त्र का उपारत दिया जाता है और इस का कवित रूप है विकाश दिया

(०) बह्युओं के अटपादकों कीह अपभीकाकों के हमतेन प्रशिक्षित करी दे

विष्ठित में भियत में मिया के मिया निर्देश (4) का अधिकार कोता थे

ा रेहारिया विश्वविद्या के ब्रह्म सामानिक संस्थानिक विश्वविद्या राजािक भेटे शिक्स, है क्यबितमें के दर्शनमान रोजान क्षानीम परमार दिला पर मेहिल होता है उस है :

(B) अकामेन्ड का अंत्रिक्तावाद (१) नन-अनामकार

ECU TOWER ar (दिनार अयदिमन्द्रणाई (हिंह के क्लिका दर अपनारित हैं।

अध्याम और आधिए (अ)

OBS EMPHATE MYS SHAMANY

(८) प्रेजीनाद और समस्याद

(१) समाजवाद भार अनेचा-अपि

२१ मत्यन भागावर्ष के काकार, रचन कीर निरस्त का अवस्पन भीर में बारम हरू में शाम क्रिय में बार में हैं, उहे बसी

(A) स्तामिक परिक्रिमी-विस्तान

(B) यस हांद्रश्यकी

(ट) जनहंस्का शिवसी

(क) आकृति-विकास रात होसर्व स्टिप्पेस्य की आक्रोन्स्य किस मास्त्रे की अर्थ हैं :

cui हमाय है हिमरक्ष के जनमंत्र पर भवित्त अंत हैते के

वस भी रुक्तिवादी पहुँच के कारण जो भीजूदा समाजित (स्थातको सा सम्बद्धा सरत्री है

(० समान हैं (समाय है अवस्ता ही अनेदा मार्ग है (3) इस तमा मा सहस्य क्रम कर कि एक संस्थ के

विर लाभक्यान सामाचिम खमार्च किसी बुलो तहार के विर दिक्तमारमक के सकती है

25. होतात्रक में जोती के बेलीनवल, क्षेत्र में हमात हुत्थ प्रकारात सक्तमें जाते हंहायतें की अहमान देश है वितरिक विका जाता के अहे महते हैं।

ताइनीहरू अजीवता १८) (इंडरले अजीवता १८) १का हासायम - मार्थिम देशियात COLUMN PRINCE

अस्ति की जीवन-क्रीजी का एक है लिए एक्टर अविव्यक्तिक 2월 취(亞 美 ·

(13) सामाध्य माधिक हैरिया CRU THING (b) शामादिक मामीदार् की माहे। CES SHITE

ा हे रहतें जी जीमों भी एक देशिया में हे युक्ती में रायेताम के कराती और मनती हैं, उन की महते हैं :

(A) जीवत पान्न होसकार ८६० जीवन में कर्मकारा CO द्वीरमार्टम अवस्था के भगुकान (10) भाषु कर्मभागः २० जन नए कोच्चमी यून्डे कोव्यमतीको है अस है अपनेता नामने हैं, बंधे महने हैं :

काह मार्गेट १८१) व्हाह समीमाह १४) ( e) च्यक्तिम् अटा (क) करकारी अटा

भ एक एक प्लिको का सदस्य, अवस प्रतिष्ठा बाले कर में अवयाया है, उसे सहते हैं :

modestre Paths-13 xis cas ( ७) अंतर-जीदेष मित्रीस्ता

(० देशिया मित्रानिवा

( छ) व्यान कारिया गरिसीतरा २०: हमान-विकासी सुद्रहर वर्षी में हमील दर्ग कि यसका शहर निमासिकों की किस की रचन कर रूपेनारिक ( है) स्थला के एस्थार (10) कार्याचे हिंकि

(D) HTE-ETT (८० कास्ट्री केतन 31- भारतस्त्रमा का अवस्थान करने हैं, वर्धीय ने विश्व

VIEWELY T 4.B. STATE LAS ELEGE (क) रूडमारी आकडे co stem

32. फानव जबसंख्या। की संबुद्धि पर मैन्यत के पि

(६) वनसंख्या भी संबुद्धि के निर्माक्ति करने में हरतरोद प्रभावकारी क्रेज

( ६) ज्याचे स्वयं वियोजना का भीवित उत्तर मभीवियोष्

( ८) जनके का मा महना जाही रहेगा जन तक वह भेग भार मुहे के बारश हुई भीते कहाओं। में मार्थी कर औ

ार अविमानामी प्रेजीयिक अवस्था आहित है होते।

३७. १९२४-वे दे जियाती सदर के बास्टी विमान के प्रेस ग्रॅबर्ट पार्ट, बोर्गा, ई. एक भार. प्रदेशकी प्रमाय-ने एक कुन निमार विका क्रिके करते हैं :

(म) शंबेद्धीय जीन किंद्रफा १४३ क्रीन विद्धाला रामकारी अवस्ति एक स्वाहमी अवस्ति ।

अर अपने केंद्रीय केंद्री हो माहर भी और पैन रहे कह अभिमा औ 'बुद्धियों ' करती है। उसे करते हैं। LAS BISE CARE (8) अय- श्रास्थीनरात ( क स्थानंतरका ( क) महत्ववसीमका

क मार्चिय सम्बंद करता है। एका जिसे की कामाध्यक समानता CAS FLEGATA (८८ विंश इनशीमता ८०० अमर्जिस्स में हे कोई भी नहीं

अह 'अनुसारिकार' सी अवचारण किसने देव : (N) देशक मार्गियेत (B) अभिते मॉन्सेन रका स्थित वार्य CO GEER DEM

का अर्थ-1 (विद्यालयार्थ) का अर्थ-11(विचारकार स्का के देखान करें और निम्नोकित कोड़ों का जारेत कर सही उत्तर का सका करें

लक्षी-म 可好-1 (विश्ववकारा स्कून) CHARACTON D । आर्टिनिका कर विकास म- मत्थ्रमा-विकासी

म - विकासिक एडेटी कीए महा 4. Francock some franco कॉरोजिस् उ-जी-एस-मध्य और गंकी प्रतिसद्देशक अंत क्षियानावी

त कार्नेत्यमारामक काराज-विकामी ५ एउमें 3 कु मेरिक कीर राज्य

(A) and bus, con, doz (B) =3, 4-4, 4-2, 4-1 (c) a-a, b-3, c-1, d-2 سوحاء روحه راحط رياسه دون

"कारणीय विकास" यद यहची जार किस ने गठा था : KAROS RISTES FOR CAL (B) UNESCO to tratain wit fame as any make ( ) ancer वार्षिकार देविक भीर उन्हान पूर अन्य प्रस्तुत 'कार्याय क tarian i regan i make (४) हंस्क्री हिस्तान(४) हंस्क्रमानपी सम्बद्धा (मेरायाध-इत्र CO MARKETTA PROFITA ्यान में तक स्त्री मध्याधिमध्ये ही कर में विका मा भागाधिक विभेदीसरमा भार कुमाकुत टी का बर्ग और भसमात बाक्ति संबंधन रत्ते । हार् कार महाद् मा द्वेद्वारणक विशेष (D) असकारणकः एकता अपेट दिश्वेदीकरण बर्गामानी किएम के विकास सिद्धान्ती से कीच-छ। समाव-विज्ञानी के काम जाने राजीकर क (N) 25-12 where (N) Co. April 72 (क) रेंडिंगिक जाउन : 4 Apr 10- City or of a restrict वर १०० लम्बे तीर पर मिश्व भी सद रही चेत्रका (७) शब्द-राज्यों भी विस्तादित्र मादित र (क संबार देवनीजीजीज से हुनी का स्मारण का राज्यी भीकारों हे बार सामाजित सर्वकों की मेजाना Bandling & Fater E. नाम हिम्ब । बाह है किसी के अपने क्रमी के मा ता तीन अना को असमानों के सामें के विभावत (८) प्रीयासी भी समात्र प्रतिक्रीय मार्थ केरती है सामा वर विचार करेंद्रा का हर अवसमा में तीन किये क्रिक्ट अस्ता का समय किया कर परिवर्तन में लिए समाजों है जो क्रांबिनमें होती है े कारते केनार कारते करता है। CAN THE THIRTH CAN ( 12 DINGER WELL CH) अंत ही-तस् महीलात उस क सामित्र संस्कर सिन रहा है और रहना है : (B) MER- 578 (B) IN THEATS (क) उद्योदन हमी (c) Altan कोल कियार का सार्च भीत-छ। नहीं हैं : (A) अरा में इसदा रूटने , विक्रोबल स्टो और कीर कारक्स मार्क के निर्देशिया मारका (B) क्षेत्रमार्थ की कारत-समाव हंत्रीयों के जिल्का विकास के केरक मनाम ( हो के किया का नमन करता Cos पर निकारिक करना कि क्या शोक्त की अलाकिका in hege march man lating leulain à किए कार्यान्यीकरका किया जा ककता है क्षित्रं सा समित्रा, विमे मधाना ह (N) नगरक गाँध्ये (B) जनकर जाज नहरूर (रा मानु जमयीपा राम (क) भी भार- भनेउमर यह किस्ता सभी देशों का विभवन, मूल, वरिस्तिय भीर भर्मा दिल्लीम राष्ट्रें में करता के दिल में महित दिमीय राष्ट्र अल्पिकिसिय उपरों के समानीर अंदि आक्रिय कियारि ही रहते हैं: (१) विद्य-त्रमुत्ता विद्युप्त 100 रह कार्टी क्षिमेंगा निहान्त पा विश्व तम विद्यारम IN नक- भाषाद्वार बुद्धि सिट्डान्स

प्रवास करें और निक्तिक क्षेत्र का स्रोति करते हैं

रे नाम के राज्यों की पर सम्मान है कि अविभीत राज्ये

रे नाम के राज्यों की पराधित हिम्मी है राज्यों

(१) उपाधिक में राज्यों की पराधित हिम्मी है राज्यों

(१) उपाधिक में राज्यों की पराधित हिम्मी है राज्यों

(१) उपाधिक में राज्यों की मही है

रे नाम के भीत निक्तिना की की मही है

तकी-। (सिद्यानस्परी)

छत्री असर सा नयत करें।

#### अर्थे-n(फेशबदा)

4. Frigal in Phil

रेटमाँ यासीयः । अटमान्यः
 अभित्रं स्वास्त्रः
 अभित्रं स्वास्त्रः

८. भोगार सम्मे ३-वेटर्ज परिवर्ग

a. transfisal, 4.

(B) a-3, b-4, c-2, d-1

(C) a-2, b-3, C-1, d-4

( n) a-4, t-1, c-3, d-2

+ DEN -

Drigido Awaren of morther (Pahrol Zonen Stat 212 212 2 mon mind So t (B) MABERIE Eightiz. (D) YES MORROWS. स्थाप्त स्थाप हिस्स में हिल्ली स्थाप करें असला है जुंदा है भूदा Ruce F she fames " เราการ-รัสกา Emana Sa Garran Ra, Wilmana mis Ruga 四 (七十二 र्माण के बाबारात प्रथम का अधिकत वित बामाईडा है। IN (83213-3583) DE PROPERTY OF 10 Chorax हरी गणित्मात मार्थिया हर्ष हर्ष पर अस्त प्रमायक the Reise Peter N (रूप की (वर्षेत्र प्रथमें मुक्ते विषे अभिनी मांचन में महें RULLIE BY PRIL TO IREAL FIRE FOR THE BUREAS (a) to No-diamogra was 2 daylog and (Asga 2=29 3 BY B HEZ my (B30 (c) to the the testions of moreners the E lein l'ers l'or Kos calar ema ém E Ason IN MICH MEMO, YEARING AMAN GA ETAMER duns [azi (taan ) (ह) मात्राम के भावत कर प्रतिवास (ह) मात्राम कर मात्रियासी विराम LE CATTE TO THE BY בכת לים בשווע ב יונים ב בבשבף בכם ונון must (233 ई महत्वी मर्ग देवरे 22 830 - mighanistan mind on a fact oil sel नेक केरी पर । में कुंच अधिरे पर, (का में कामाहि med) 252 21 (b) 9.525 (\$ 34) 49 x3 5 (A) mismin Les Ferni Garm ול לכל חבר אברבן דיב בברוניב וריפל בל בב-מניג באומני נחן (B) \$31 3531-32 (८) अनुक्ती अध्यत् नेव (1) 五作的 大型加一等 FRE & MURRIER HAVEN ST. (व) सरकत सभी भूवर-एउटो, १२४-७०, मिन्टेस्टा सबी चेळा, and reasons teams of menon THE WINDOWS COME, CLASS ON TOU-SAME, הבמשון אורשובטו מצור אבצון, קש מצוטב השודי באר אה הציים וני פינשו מבא עשב-בישון עשב-מוקצון מושלביו מבן יציאן של פל מציבת פושלה כל וויש בוני ואו ווישבונה (1) (मार बरा) हुन मानुष्य हुमनेंग की मार्टमां, הנגשו-פושש הובשו, והל עושה בשום בלאו 4. EMRZ LEW EMR 2H 32H LEW 3 + PE 33 (83 PERMITTER OF E ASER ENTERS & ENTERS METERS es constant and 31 (60 8: (म) भारतिकासके (म) प्राथित विस्क 130 Gellem Ation 4630 म जिल्ल केरा दिन का मिन्सी के नाम केरा अंग्रेड अंग्रेड अंग्रेड

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11. (Braci 20 H532(H2) WEIGE (AR 21/2 ES (EJE (E32)) 新田 取るのう。 展出 が minを コカリ (the Corners. CHIEF (A) (20 EX-GIRAVEN 153 332217 12. (20) to cell a cellent ama-feltermina à cer est la ora ENIX MURITIS OF ENIRM OF FIRES 2001 Y MERCH CHICA GOD MINORIA CORPORA S tel 2012 HIRAS CAN DRESS. WARR (D) Whenthe Endon BY THE THE 13. Go alon la lafarmia coronnel 5, les el nasco 5 (A) (Elmination & Left (Emasters was all the ETTERMED ED REE RE PRIBE PRIMITED (A) मुंको है कोने देश प्रकर्त प्रक ( a legamin framing of wind 200 21 BERRE SALD the entremed from I saw lenne Primers De ב בנה מבת מם בנה בל בל בנו מבו משל בא ty, aniz-alterniza ha fin americana sautai at THE REST END YOUR READ AS RETTE REPORTE OF TAIL ON EAR HAY & STANFARD BY BERNESH YUI, (B) में में के बन मह-देन है मांच का मोड़ी मार्च, डा है। 53122 (Rapin and 02 ्या विकेश प्रति प्रति प्रतिकृति प्रति प्रतिकृति प्रतिकृति प्रतिकृति प्रतिकृति प्रतिकृति प्रतिकृति प्रति प्रति प्रतिकृति प्रतिकृति प्रतिकृति प्रतिकृति प्रतिकृति प्रति (3) (3) 24 8332 Maries (4) 2 that as outline as a new and as easy ! - Amer Blook EEN ES & Admin B. Amer Lee) as ( France is - Real of France 3): CAS THE CAS STATES CASTALLE CAS the ethnicle work ( 61 2128 21127) the think the state of a man and a state of the mile will be the of it is them I so I, he had not the min I ADIER (AD MINS) TIMER (ED 5" (R.S. ) MISMIRE WASH BEND ! entelly feet to the Arthresis CAD American KINNED FLOREN PENG-FRING (S) (a) 1/32-21328-2 Well Brack or (2) (2 mg) mg นอมก. ผิงก่ ชู ากการ์ อม : (D) (aziloz date) 1 no 32- Adas to GRATIGAD RAW १८३ सम्बा संस्था יותלנבו) בווה לב בוצני ל מכו לכור יותבאל הבו יפו NEW PILD ON , CIERE WEN ESS . WHO THE PLE Ra Leitem 3, En & mind on! CAS MILL BANDA (10) SIMBA GON ZI BZ (รว ... ยรท-เรลนุคลา cos masinos 19 set a real than of the of the loss as a set of mixed CETT FIRST BY THE OF US PREWENT CAT LES HEAT FRA WISH KENT ASIEKSTO DI

COO प्रमाणक किंद्र देश कर अला थे

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किस्हार विक उन्न हुने हूं हिल्ला इस्टान वर वर्ष तानु १ता रामास्य प्राक्तकं विते युत्रे सकुत असी सुस्वित्तात्रमञ्

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14: १७२०वेसी वित्र मिश्रा या मेंद्रीमात्र, वित्त क्रिंग समाय हुई TRAIN THE RIZ TITLE of RICENTS BY NIR BOAM 파파 B, 모드 를 mms 3x :

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(B) Away Praise TA) मन्-भामाओ कियाँड

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ाहित इसेट के मार्ज म स्वर्धायक किस है। किस की मार्

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## Ph.D. Entrance Test – 2014

# Subject: Anthropology

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Ansv	ver Sheet Serial No	0.	
		Signature of the Cano	lidate
Times 60 min	outes Number	of Questions: 50	Maximum Marks : 50

INSTRUCTIONS

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers,
- 6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- 8. If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

1.	Who is the	he author of 'F	Races and	d Culture of Ir	idia':		-	
	A)	Guha			B)	Sarkar		
	C)	Majumdar			D)	Chatterjee		
2.	Two mai	n branches of	Anthrop	ology are:				
	A)	cultural anti	hropolog	y and archaeo	logy			
	B)			gy and cultura		oology		
	C)	ethnology a						
	D)	palaeoanthr	apology	and genetics				
3.	ABO blo	ood group was	discove	red by:				
	A)	Weiner			B)	Darwin		
	C)	Huxley			D)	Landsteiner	S.	
4.	Total nu	mber of bones	in the h	uman skull is;				
	A)	22	B)	29	(C)	33	D)	39
5.	Second	vertebra in hu	man ske	leton is called:				
	A)	Atlas	B)	Sacral	C)	Axis	D)	Lumbar
6.	Which o	f the following	g glands	has both endo	crine and	d exocrine fund	ctions:	
	A)	Adrenal	B)	Pituitary	C)	Thyroid	D)	Pancreas
7.		vo individuals , they are calle		lar in external	appearai	nce but differe	nt in the	ir genetic
	A)	Phenotype			B)	Genotype		
	C)	Heterozygo			D)	Homozygo	us	
8.	Organic	evolution thro	ugh larg	e discontinuo	us variat	ions was propo	sed by:	
	A)	Lamarck			B)	Hugo deVri	ies	
	C)	Darwin			D)	Huxley		
9,	Who gas	ve the statemen	nt "Onto	geny repeats p	hylogen	y":		
	A)	Von Bear			B)	Lamarck		
	C)	Huxley			D)	Darwin		
10	Cranial	capacity of A	ustralopi	thecines range	ed from:			
	A)	420 - 750	ce		B)	435 - 700 c	c	
	C)	700 - 1200			D)	850 - 1700	cc	

11. T	he ger	netic control of shape is:		
	A) C)	More rigorous than that of size Equal to that of size	B) D)	Less rigorous than that of si Independent of size
12. 1	n hum	ans hypothermia begins when core b	ody tem	perature:
	A) C)	Falls below 94° F Rises above 105° F	B) D)	Falls below 32° F Rises above 120° F
13. I	Iypoxi	ia begins to occur at:		
	A) C)	1 – 2 miles altitude Above 3 miles altitude	B) D)	Above 2 miles altitude Above 5 miles altitude
14. F	lake to	ools are dominant in:		
	A) C)	Lower palaeolithic Upper palaeolithic	B) D)	Middle palaeolithic Chalcolithic
15. In	crease	in the number of WBC is referred a	S:	
	A) C)	Leukopenia Anaemia	B) D)	Leukemia Polycythemia
16. SI	lightly	movable bone joint is called:		
	A) C)	Hinge joint Suture	B) D)	Synovial joint Symphysis
17. G	oiter is	s caused due to deficiency of:		
	A) B)	Calcium Phosphorus	B) D)	Fluorine Iodine
18. F	irst ph	ase of embryonic development is:		
	A) C)	Fertilization Gametogenesis	B) D)	Cleavage Gastrulation
19. P	olymo	rphism is mainly due to:		
	A) B)	Metaphase Prophase	B) D)	Anaphase Embryonic formation
20. G	enes v	with multiple phenotypic effects are o	called:	
	A) C)	Pleiotropic genes Polygenes	B) D)	Active genes Dominant genes
21. D	ryopit	hecines were considered common an	icestors o	of:
	A)	Apes and monkeys	B)	Apes and man

22.		ares the process of growth with all a	nimals, l	out in one respect he is unique,						
	that is:	Prolonged period of infancy and ch	ildhood							
	B) Enlargement of cells during post-natal growth									
	C)	High rate of growth in weight of fetus								
	D)	High velocity of growth in length i	n fetus							
23.	The term	n LBM is used to describe:								
	A)	Fat + mineral skeleton + cells								
	B)	Cells + extra cellular fluid + fat								
	C)	Cells + fat								
	10)	Cells + extra cellular fluid + miner	al skelet	on						
24.	Which of climates:	the following is a method by which	human	bodies successfully adjust to hot						
	A)	Evaporation of sweat from skin su	rface							
	B)	Increased fat layers under the skin for insulation								
	C)	Increased consumption of high cal	orie foo	ds						
	D)	By convection								
25.	Half-lif	e period of C <sup>34</sup> is:								
	A) C)	7350 years 5703 years	B) D)	5730 years 3750 years						
26	. A fami	ly consisting of a married couple and	their un	married children is known as						
	A) C)	Joint family Nuclear family	B) D)	Extended family Nuclear-extended family						
27	Which	of the following are the modes of acc	quiring v	vife?						
	A) C)	Progency price Gift exchange	B) D)	Suitor Service Marriage by capture						
28	. Identify	y the correct sequence of Purushartha	s in Hin	du tradition.						
	A)	Dharma-Artha-Kama-Moksha								
	B)	Dharma-Artha- Moksha -Kama								
	C)	Moksha-Kama-Artha- Dharma								
	D)	Artha-Kama-Moksha- Dharma								

29.	Match an item in List-I with an item in List-II.						Use the codes given below:			
	A) B) C) D)	L.P. S.C.	<u>I</u> hattopadhyay Vidyarthi Dubey Beals		I. II. III. IV.	List-II Gopal Shami Ghagl Ranja	pur rpet nar			
	Codes	g								
			(a)	(b)	(	c)		(d)		
		A)	IV	Ш		II		I		
		B)	IV	П		III		1		
		C)	Ī	111		IV		11		
		D)	П	1		IV		III		
30.	Identify society		orrect sequen	ce in the	descend	ing ord	er of s	ocial divisions in Trib		
	A)	Fam	ilies Clans	Sub-tribe	es Trib	ic.				
	B)	Trib	e-Sub-tribe	s Clans	-Famil	ies				
	C)	Clan	s-Families-	Tribe-5	Sub -trib	es				
	D)	Sub-	tribes—Tribe	-Familie	s-Clar	is				
31.	Match ar	item	in List-I with	an item i	n List-II	. Use th	ne code	es given below:		
			List-I					List-II		
	A)	Univ	ersalization a	and Paroch	ializatio	n	1.	M.N. Srinivas		
	B)	Little	e and Great T	radition			II.	L.P. Vidyarthi		
	C)		ed Complex				111.	Robert Redfield		
	D)		ninant Caste				IV.	Mckim Marriott		
	Codes									
		(a	)	(b)		(c)		(d)		
	(A)	П		1		IV		III		
	(B)	H	I	1V		1		II		
	(C)	11	6	III		11		1		
	(D)	1		11		111		IV		
32.	Which o	f the f	following feat	tures defin	e 'Tribe	' as an	ideal co	onstruct?		
	A)	Eco	nomic special	lization		B)	Egal	itarianism		
	(C)	Inte	grated charac	ter		C)	Clas	s formation		
	Codes	ė.					State	Tanada salamanana		
	A)	I and	II are correct	Ε,		B)		and III are correct		
	C)	II and	III are corre	ct		D)	Н, П	I and IV are correct		

33.	Give the correct sequence of the following:									
	A)	Tribe—Bar	nd-Chie	efdom-State						
	B)		Tribe Chiefdom Band State							
	(C)	Band—Chiefdom—State—Tribe								
	D)			efdom—State						
34.	Identify the correct sequence of the following given by George James Frazer:									
	A).	Magic—Re	dinion	Science						
	B)	Religion—	the second secon							
	()	Science—F		The second secon						
	D)	Religion—								
	Lift	Kengion	wagie	Science						
35.	Match a	an item in List	t-I with a	n item in List-l	I. Use	the codes given below:				
		List-I	List-II  I. One who uses supernatural powers for anti-social							
	A)	Shaman	1.	1. 4. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						
	B)	Priest	H.	one who has the capacity to call spirits to ki						
	D)	rifest	11.	cause harm	s the ca	pacity to can spirits to kill of				
	(C)	Sorcerer	III.		notions	ry whose authority is bestowed				
	(6)	Soiceter	111.							
	m	White	IV.	upon him by the society A religious specialist who receives the power direct						
	D)	Witch	도시 및 글로드는 이 H. (100) (2015) 보이라고 있다면 보이다고 있다면 보이다고 있다면 보이다고 있다.							
				from the sup	er natu	rai sources				
	Code	251								
		(a)	(b)	(c)		(d)				
	A)	ÍV	III	I		II				
	B)	1	II	III		IV				
	(C)	IV	m	II		1				
	D)	П	Ш	IV		i				
	1.7)		111	1.4						
36.	The ter	m 'Vote Bank	c' was co	ined by						
	A)	Andre Bete	ille		B)	S.C. Dubey				
	(C)	M.N. Srinis	vas		D)	L.P. Vidyarthi				
37.	The per	centage of the	Schedul	led Tribe Popul	ation a	s per Census 2001 of India was				
	A)	6.2%			B)	7.2%				
	(C)	8.2%			D)	9.2%				
	17.		maio.a•100e0		1.0					
38.		ance, is know	The second secon	ire considered (	ordinary	y, having no special religious				
	A)	Profane			B)	Sacred				
	C)	Secular			D)	Spiritual				
	11.05				(Sept.)	20-10-10-10-10-10-10-10-10-10-10-10-10-10				

39.	Which among the following are considered as property among the most vulnerable tribal societies?								
	I.	Land		11.	Cattle				
			d implemente	IV.	Precious metals ornaments				
		Codes:	nd implements	4.4	Trecious means common				
			, II and IV are correct						
			I, III, IV and I are corre	eet:					
			II, IV and I are correct						
			, II and III are correct						
		(12)	, II mid III are concer						
40.		the con		lopment of	economic pursuits among the				
	A)	Fishing	-Gathering and Huntin	ng-Cultiva	tion—Pastoralism				
	B)	Pastoral	ism — Cultivation — G	athering and	l Hunting — Fishing				
	C)	Gatherin	ng and Hunting—Fishin	ng-Pastora	lism —Cultivation				
	D)	Cultivat	ion — Pastoralism — Fi	shing—Gat	hering and Hunting				
41.	The app	The approach to 'New Archaeology' was propounded by							
	A)	L.R. Bi	nford	B)	V. Gordon Childe				
	C)	Graham		D)	D.L. Clarke				
	100	Criminan	Cimer	50%)					
42.	The Sohan culture of Northwestern India is characterized by								
	A)	Ground and polished tools							
	B)								
	C)	Flake dominated stone tool industry							
	D)	D) Blade dominated stone tool industry							
43.	Find out the West Asian Neolithic sites from the enlisted								
	1.	Jericho		2.	Spirit cave				
	3.	Catal I	łuyuk	4.	Banchiang				
	Codes:		5						
	A)	1 and 2		B)	1 and 3				
	C)	1 and 4		D)	2 and 4				
44.	Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).  Assertion (A): The Indian Megalithic culture is characterized by several burial type								
		son (R):		l types was	due to the biophysical Characters				
	On t	he basis of	the above, choose the	correct ansv	ver:				

(A) is correct, but (R) is wrong

Both (A) and (R) are wrong

B)

D)

Codes:

A)

C)

Both (A) and (R) are correct

(A) is wrong, but (R) is correct

45.	Arrange	the too	l-types in progress	ive technol	ogical s	cheme.	
	A) B) C) D)	Abber	ılean — Abbevillia	n — Levallo ın — Levall	oise poir oise poi	Levalloise point at — Backed blade at — Backed blade ade — Abbevillian	
46.	Harapp in Hary		zation extends from	m Ropar to	Sutagen	dor. The Harappan site located	
	A)		angan		B)	Mitathal	
	C)	Kotdi	18		D)	Lothal	
47.	Which	among tl	ne following is an	upper Palac	colithic	site of India	
	A)	Vadar	nadurai		B)	Birbhanpur	
	C)	Adam			D)	Renigunta	
48	Engliset	ovidenc	e of domestication	of don wa	s found	att	
40				ror dog ma			
	A)	Jerich			B)	Maglamosian	
	C)	Piklih	al		D)	Tardenoisian	
49.	Arrange the following methods of dating in order in which they were discovered:						
	I.	Varve	Analysis		H.	Radio Carbon	
	III.		graphy		IV.	Racemization	
	Code	151					
	A)	1	11	111	13/		
	B)	111	1	IV	11		
	C)	111	11	1	1V		
	D)	IV	11	1	111		
50.	labelle	d as Rea	son (R).	ition repres	ents a tr	Assertion (A) and the other is ansition between lower and pe.	
	Reason (R): It shows different facies with elements of both lower and upper Palaeolithic.						
	In the context of the above two statements, which one of the following is correct?						
	Code						
	A)		(A) and (R) are co	errect.			
	B)		correct but (A) is				
	(C)	1.0	(A) and (R) are w				
	D)		wrong, but (A) is				
	440	100	The second of th				

## Ph.D./M.Phil. Entrance Test - 2014

Subject: Botany

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Ans	wer Sheet Serial No		
		Signature of the Cana	lidate
Time: 60 mi	nutes Number	of Questions: 50	Maximum Marks: 50

#### INSTRUCTIONS

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- 5. Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- 6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- 7. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- 8. If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12 In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

1.	When	one end of a petal overlaps that of the next, the Aestivation is known as
	A.	Valvate
	В.	Imbricate
	C.	Twisted
	D.	Vaxillary
2.	Pollina	tion in Eichhornia is carried out by
	A.	Insects
	B.	Water
	C.	Birds
	D.	Bats
3.	Inflore	scence is cymose in
	A.	Pea
	В.	Wheat
	C.	Onion
	D.	Mulberry
4.	Prokar	yotic cell differs from a eukaryotic cell in having
	A.	Ribosomes
	B.	Mesosomes
	C.	Cyclosis
	D.	Nucleus
5,	Centric	oles are not present in cells of
	A.	Euglena
	В.	Plasmodium
	C.	Paramecium
	D.	Sperm
6.	Flage!	ated reproductive cells (zoospores/gametes) are not present in
	A.	Zygnema
	В.	Oedogonium
	C,	Ectocarpus
	D.	Ulva
7.	Sexual	reproduction among fungi normally occurs through
	A.	Conidiospores
	В.	Auxospores
	C.	Zoospores

D. Oospores

- 8. Arachidonic acid is an essential fatty acid as it is
  - A. A component of unsaturated fats
  - B. Synthesised by hydrogenation of unsaturated fatty acid
  - C. Essential component of protoplasm
  - D. Not synthesised in cell
- 9. Mitochondrion was referred as bioplast by Altman as it is
  - A. Filamentous
  - B. Endosymbiont
  - C. Plastid like in structure
  - D. Organelle with its own DNA
- 10. Under unfavourable conditions, plasmodium in slime moulds differentiates into fruiting bodies bearing spores. Which one of the followings is incorrect for these spores?
  - A. Develop at tips of fruiting bodies
  - B. Possess pseudo walls
  - C. Survive for many years
  - D. Dispersed by air
- 11. Which of the following sequence is correct for Kreb's cycle?
  - A. Citric acid, oxaloacetic acid and succinic acid
  - B. Succinic acid, Acetyl CoA and citric acid
  - C. Fumaric acid, malic acid and oxaloacetic acid
  - D. α-Ketoglutaric acid, oxaloacetic acid and succinic acid
- 12. Which one of the statements is incorrect?
  - A. Meiosis produces haploid cells
  - B. Genetic recombination occurs during meiosis
  - C. Meiosis is helpful in evolution process
  - D. Meiosis maintains chromosome number constant
- 13. The fluid mosaic model of plasma membrane differs from lamellar model in
  - A. Having globular proteins
  - B. Number of lipid layers
  - C. Suggesting static nature
  - D. Having carbohydrates
- 14. Which of the following is part of coenzyme FMN?
  - A. Vitamin B1
  - B. Vitamin B2
  - C. Vitamin B5
  - D. Vitamin B12

- 15. Which of the following are correct?
  - 1. Chloroplasts contain ribosomes.
  - 2. Ribosomes are without limiting membrane and nucleic acid.
  - 3. 80 5 ribosomes are found in cells of Protista.
  - 4. Ribosomes were discovered by Porter et al. in 1840.
    - A. 1 and 2
    - B. 2 and 3
    - C. 1 and 3
    - D. 1 and 4
- 16. Which organelle is expected to be more in number in secretory cells?
  - A. Lysosomes
  - B. Dictyosomes
  - C. Vacuoles
  - D. Sphaerosomes
- 17. Chlorophyll a is characterized by which side group?
  - A. Methyl
  - B. Aldehyde
  - C. Phytol
  - D. Ketone
- 18. Free living but anaerobic nitrogen fixing microbe is
  - A. Azotobactor
  - B. Frankia
  - C. Beijernickia
  - D. Rhodospirillum
- 19. Which of the following is incorrect?
  - A. All solutions have lower water potential than pure water.
  - B. More the solute molecules in a solution, more is the solute potential
  - C. Water potential is equal to solute potential for a solution at atmospheric pressure
  - Pressure potential is negative in xylem and helps in upward movement of water in plants
- 20. What is correct about Calvin cycle?
  - A. It occurs in mesophyll cells of C3 plants only
  - B. It occurs in bundle sheath cells of C4 plants only
  - C. It occurs in mesophyll cells of both C3 and C4 plants
  - D. It occurs in mesophyll cells of C3 plants and bundle sheath cells of C4 plants
- 21. Which of the following is a set of synthetic auxins?
  - A. Indole acetic acid and Naphthalene acetic acid
  - B. Indole acetic acid and Indole butyric acid
  - Indole butyric acid and 2, 4- dichlorophenoxy acetic acid
  - D. Naphthalene acetic acid and 2, 4- dichlorophenoxy acetic acid
- 22. Which one of the following auxins is widely used to remove dicot weeds only?
  - A. 2, 4- dichlorophenoxy acetic acid
  - Indole acetic acid
  - C. Naphthalene acetic acid
  - D. Indole butyric acid

23	. Chloro	plast endoplasmic reticulum membrane is absent in the phylum
	A.	Phaeophyta
	В.	Englenophyta
	C.	Cryptophyta
	D.	Chlorophyta
24	. A close	d fruit body having no pre-defined opening but with asci arranged in a single basa
	fascicle	e is called
	A.	Calyculus
	В.	Capillitium
	C.	Cephalodium
	D.	Chasmothecium
25	. Perithe	ecium is a
	A.	Closed ascocarp with a pore at the top
	В.	Basidium divided into 4 cells cruciately
	C.	Ascocarp which is completely closed
	D.	4. (A.4) (A.1)
26	. What	percentage of cytosine would be there in a DNA molecule having 15% of adenine?

27. In an angiosperm, the female gametophyte is represented by

A, 15 B, 30 C, 35 D, 85

Embryo sac
 Egg apparatus
 Secondary nucleus

D. Endosperm

A. Free central

B. Basal
C. Marginal
D. Parietal
29. Edible part in coconut is
A. Epicarp
B. Mesocarp
C. Endocarp
D. Seed

A. Scutellum
 B. Aleurone layer
 C. Coleoptile
 D. Coleorhiza

28. Type of placentation in marigold is

30. In monocots, plumule in seed is covered over by

31	. The ca	sparian strip present in the endodermis of roots is chemically composed of
		Cutin
	В.	Suberin
	C.	Pectin
	D.	Xylan
32.	Most p	rimitive angiosperm is
	A.	Magnolia
	В.	Sphaerocarpos
	C.	Galanthus
	D.	Wolffia
33.	Cladon	ia rangifera, commonly called reindeer moss is a
	A.	Moss
	В.	Lichen
	C.	Pteridophyte
	D.	Red alga
34.	Ethyler	ne signalling is regulated
	A.	Negatively
	В.	Positively
	C.	Locally
	D.	Systematically
35.	Triticur	m aestivum, used as bread is
	A.	Diploid
	В.	Triploid
	C.	Tetraploid
		Hexaploid
36.	In the	creation of a microarray (biochip), fragments of DNA are placed on a
	A.	Microscope slide
	В.	Circuit board
	C.	Silicon chip
	D.	Cell membrane
37.		mics is the study of
		Regulating proteins in plants
		Structural proteins of a cell
		GeneOtranscribing proteins
		All proteins in an organism
38		sed genetic diversity following extended time in a tissue culture is a problem called
		Temporal modification
		Somaclonal variation
	120	Gene alteration
		Culture shock
3		oduce plants that are homozygous for all traits, the best choice is
		Anther/pollen culture
	8	. Cell suspension culture

C. Callus culture

D. Protoplast culture

- 40. If you want to use a plant tissue culture in a chemical factory for vitamins, choose
  - A. Suspension cultures
  - B. Callus cultures
  - C. Organ cultures
  - D. Protoplast cultures
- 41. Which one of the following is a set of synthetic auxins?
  - A. IAA and NAA
  - B. IAA and IBA
  - C. IBA and 2,4-D
  - D. NAA and 2,4-D
- 42. In order to have early seed production in conifers, which of the following PGRs will be sprayed on juveniles?
  - A. IAA
  - B. Ethylene
  - C. ABA
  - D. Gibberelins
- 43. Which one of the following is referred to as the walking fern?
  - A. Ginkgo
  - B. Sphagnum
  - C. Camptosorus
  - D. Funaria
- 44. Which factor is not a limiting factor in normal conditions for photosynthesis?
  - A. Sunlight
  - B. Chlorophyll content in leaf
  - C. Water in plant cell
  - D. CO<sub>2</sub> in atmosphere
- Plant species having a wide range of genetic distribution evolve into a local population known as
  - A. Eco-type
  - B. Biome
  - C. Centre of origin
  - D. Ecosystem
- 46. Biodiversity
  - A. Decreases towards equator
  - B. Increases towards equator
  - C. Has no effect due to change in latitude
  - D. Remains same throughout the planet
- 47. The term 'Embolism' in xylem transport refers to
  - A. Transport of water through vessels only
  - Blockage of xylem elements
  - C. Fast transport of water
  - Bubble formation in xylem elements

- 48. Which one of the fossil types mainly represented Rhynie Chert flora?
  - A. Casts
  - B. Compaction
  - C. Petrifaction
  - D. Coal Balls
- 49. Which one is an ex situ method of biodiversity conservation?
  - A. Wildlife sanctuaries
  - B. Biosphere reserves
  - C. Germplasm banks
  - D. National parks
- 50. Which term indicates ecological community the best way?
  - A. Ecosphere
  - B. Biogeocoenosis
  - C. Biosphere
  - D. Biocoenosis

Question Booklet Series : A Question Booklet Sr. No. 035067

## Ph.D. Entrance Test - 2014

Subject: Bio-Chemistry

# Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet

Roll No.	In Figure	In Words	In Words			
O.M.R. Answ	er Sheet Serial No	D. [] [] []	1			
		Signature of the Cana	lidate			
Time: 60 min	utes Number	of Questions: 50	Maximum Marks: 50			

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1.	Whic	Which of the following is a non-organ-specific (systemic) autoimmune disease?							
	A) B) C) D)	Myasthenia gravis. Insulin-dependent diabetes mellit Hashimoto's thyroiditis Systemic lupus erythematosus (S							
2.	Reco	ombination of V, D and J Ig gene sep	gments:						
	A) B) C) D)	Is effected by recombinase enzyn Involves heptamer-spacer-heptan Only occurs in mature B-cells Only occurs in light chains		ng sequences					
3.	In the	In the indirect ELISA test the enzyme-linked antibody will attach to:							
	A) B) C) D)	Patient antigen Variable region of the patient ant Constant region of the patient and Wall of the microtiter well							
4.	Horn	Hormone that acts by binding to intracellular receptor is							
	A) C)	Adrenocorticotropic hormone Follicle stimulating hormone	B) D)	Thyroxine Glucagon					
5,	Rifar	Rifampicin inhibits							
	A) C)	Unwinding of DNA Initiation of translation	B) D)	Initiation of replication Initiation of transcription					
6.	Seler	Selenium is a constituent of the enzyme:							
	A) C)	Glutathione peroxidise Tyrosine hydroxylase	B) D)	Homogentisate oxidase Phenylalanine hydroxylase					
7.	An intermediate in the Na+-K+ pump transport cycle is:								
	A) B) C) D)	A phosphorylated Asp residue, E An enzyme-adenylate complex, I An enzyme-PPi complex, E~PPi. A protonated Glu residue, E-COO	E-AMP.						
8.	Diph	theria toxin inhibits							
	A) C)	Prokaryotic EF-1 Eukaryotic EF-1	B) D)	Prokaryotic EF-2 Eukaryotic EF-2					
9.		ch of the following amino acids wou reversible inhibitor?	ld be MC	OST prone to a reaction with					
	A) C)	Phenylalanine Threonine	B) D)	Lysine Histidine					

10.	Zinc finger motif is formed in some proteins by binding of zinc to								
	A)	Two cysteine residues							
	B)	Two histidine residues							
	C)	Two arginine residues							
	D)	Two cysteine and two histidin residues each	e residues o	two pairs of two cysteine					
11.	Anion gap in plasma is because								
	A) B) C) D)	Of differential distribution of Cations outnumber anions in p Anions outnumber cations in p Of unmeasured anions in plass	olasma olasma	cell membranes					
12.	Cells	Cellulose is a polymer of							
	A) B) C) D)	-Glu α 1, 3 Glu- -Glu β 1, 4Glu- -Glu α 1, 4 Gal- -Glu β 1, 3 Gal-							
13.	the ident	A polypetide 10 amino acids long is split into various smaller fragments, and the amino acid sequences of some of the fragments are determined. The identified fragments include: ala-gly-ser-gln, lys-trp-arg-pro, gln-his-lys, aspala-gly. What is the primary sequence of the polypeptide?							
	A)	ala-gly-ser-gln-lys-trp-arg-pro-gln-his							
	B)	asp-ala-gly-ser-gln-his-lys-trp-arg-pro							
	C)	ala-gly-ser-gln-his-lys-trp-arg-pro-asp							
	D)	lys-trp-arg-pro-gln-his-lys-asp-ala-gly							
14.	Whi	Which of the following methods of regulation is not present in prokaryotes?							
	A)	DNA-binding proteins	B)	Attenuation					
	C)	Repressor proteins	D)	Chromatin remodeling					
15.	miR	miRNAs are involved in:							
	A)	Transcriptional silencing	B)	RNA interference					
	C)	Ubiquitination	D)	Methylation					
16.		How would the cell cycle be affected if you removed the phosphorylation sites in the Rb protein?							
	A)	The cell cycle would not be at normally.		use pRb is not hosphorylated					
	B)	The cell cycle would be block							
	C)	The cell cycle would be block							
	D)	<ul> <li>The cell cycle would be shorter</li> </ul>							

17.	What properties of a protein does hydrophobic interaction chromatography exploit for purification?								
	A) B) C) D)	Charged amino acids Hydrophobic amino acids Molecular weight Enzyme activity	on the p	rotein surface					
18.		What is the starting point for selection of a suitable Ion-exchange chromatography matrix for purification of a recombinant protein?							
	A) B)	<ul> <li>Test protein binding to an Ion exchange matrix at a range of pHs and salt concentrations</li> </ul>							
	D)	Test protein binding to a selection of anion and cation exchange matrices     Pass your sample through a preparative column and clute with a salt gradient							
19.	The following hormone is a peptide of less than 10 amino acids								
	A) C)	Insulin Oxytocin	B) D)	Growth Hormone Parathyroid hormone					
20.	Ternary complex is not formed in:								
	A) C)	Random Bi B Theorell-Chance Bi Bi	B) D)	Ordered Bi Bi Ping Pong Bi BI					
21.	Which of the following agents act as irreversible inhibitors?								
	A) C)	Sulphonamides Statins	B) D)	Penicillins Protease inhibitors					
22.	Buffer systems are effective when the pH values are within pH unit(s) of the pK <sub>a</sub> value.								
	A)	1.0	B)	1.5					
	C)	3.0	D)	4.0					
23.		Which statement best describes the main distinction between the origin of the two classes of small regulatory RNAs: siRNA and miRNA?							
	A)	siRNAs originate within the cell genome	the cell	cytoplasm; miRNAs originate from					
	B)	siRNAs originate from p originate from the cell gen		antly exogenous dsRNA; miRNAs					

miRNAs are expressed whenever siRNAs are unable to appropriately degrade RNA sequences

miRNAs are processed from dsRNA viruses, siRNAs are processed from ssRNA viruses

C)

D)

responsible for which part of the action potential?

24.

The opening of axon membrane voltage-gated potassium channels is

	A)	The state of the s		e membrar					
	B)	Repolarisation of the membrane Contraction of the post synaptic muscle fibre							
	C)								
	D)	Signatting	vesicular	release of	neur	otransmitters			
25.	The	immediate pr	oducts of	C <sub>3</sub> and C <sub>4</sub>	photo	osynthesis are, re	specti	ully:	
	A)		The state of the s	sphate; Ma	alic a	cid			
	B)	Malic acid							
	C)			; Oxaloace					
	D)	Glycerald	ehyde 3-p	hosphate; I	host	nho-enol-pyruvat	e (PEI	P)	
26.		ch of the foll tosis by the i			t par	t of the apoptoso	ome w	hich initiates	
	A)	Apaf-1	B)	Bel-2	C	) Procaspase-9	D)	Cytochrome (	
27.	Which of the following proteins involved in peptide initiation and chain elongation is a GTPase switch?								
	A)	Initiation	factor-2	1	3)	EF-Tu			
	C)	EF-G	PARCH CHEV		D)	Both EF-Tu an	d EF-	G	
28.	Whic		ollowing	statements	abo	out smooth mus	scle c	ontraction is	
	A)			th muscle.		vates the phosp	hatase	that causes	
	B)		riated mu	scle, conti		on of smooth m	uscle	cells occurs	
	<ul> <li>Phosphorylation of a myosin light chain allows actin-myosin binding in smooth muscle.</li> </ul>								
	D)	Dephosph binding in	The state of the s		osin	light chain al	lows	actin-myosin	
29.		ch of the fo kinase is cor		tatements	abou	t the enzymes,	glucol	cinase and/or	
	A)					cose than has glu			

ALA synthase is decreased in patients with acute intermittent porphyria.

D) ALA synthase synthesis decreases in individuals treated with drugs

Which of the following statements about aminolevulinate synthase (ALA

ALA synthase catalyses the rate-limiting reaction in haem degradation.

ALA synthase catalyses the rate-limiting reaction in haem synthesis.

Glucokinase has a high affinity for glucose

Hexokinase has a high affinity for glucose.

C)

D)

A)

B)

synthase) is correct?

such as barbiturates.

30:

31.	Why does the ribosome stall on region 1 during attenuation?				
	A) Translation of this region requires tRNAtrp.     B) High levels of tryptophan interfere with ribosome function.     C) Low levels of tryptophan lead to intrinsic termination.     D) Binding of the repressor protein prevents further translation.				
32.	Lactose utilization by E. coli requires the gene which transports lactose into the cell.				
	A) C)	lacZ lacA	B) D)	lacy	
33.	When glucose interferes with the inductive effects of lactose on the lactose operon, this is called"				
	A) C)	Co-repression Anti-termination	B) D)	Attenuation Diauxie	
34.	All of the following translocate to the nucleus and induce elevated levels of transcription except				
	Cell-surface cytokine receptors     Phosphorylated MAP kinase     Steroid receptor proteins bound to steroid hormones     Phosphorylated STATs				
35.	Prothrombin time is prolonged by administering				
	A) C)	Vitamin K Calcium	B) D)	Dicoumarol Prothrombin	
36.	Tryptophan is sometimes used to promote sleep. This is probable, because it is a precursor of:				
	A) C)	Serotonin Niacin	B) D)	Melatonin Tryptamine	
37.	Vitamin C is essential in the synthesis of a hydroxyproline residue found in:				
	A) C)	Collagen Ferritin	B) D)	Keratin Thrombin	
38.	The main active form of vitamin D in the body is:				
	A) C)	1,25(OH) <sub>2</sub> vitamin D. 7-dehydrocholesterol	B) D)	24,25(OH) <sub>2</sub> vitamin D. Calcitonin	
39.	Which of the following reactions is required for proofreading (i.e. correcting replication errors) during DNA replication by DNA polymerase III?				
	A)	A) 3' - 5' exonuclease activity			
	B)				
	C) 3' - 5' endonuclease activity				
	D)	D) 5' - 3' endonuclease activity			

40.	The distinguishing test between monosaccharides and dissaccharides is								
	A)	Bial's test	B)	Selwanoff's test					
	C)	Barfoed's test	D)	Hydrolysis test					
41.	Mye	lin sheath is produced by							
	A)	Axoplasm	B)	Microglia					
	C)	Schwann cell	D)	Astrocytes					
42.	Whie	Which sequence is most likely to be a eukaryotic promoter?							
	A)	GTACAGTCATCCCGT	C						
	B)	CTTGCTATACCATTC	G						
	C)	TCCTATAGAGCGATT	GA						
	D)	CGGTATATATCGTAC	G						
43.	Shin	e-Dalgamo sequence is part	of:						
	A)	r-RNA	B)	mRNA					
	C)	t-RNA	D)	RNAi					
44.	In th	e small intestine, cholera tos	kin acts by	4					
	A)	ADP-ribosylation of the	G regulato	ory protein					
	B)	Inhibition of adenyl cycli	se						
	C)	C) Activation of GTPase							
	D)	Active absorption of NaC	1						
45.	Pept	ides in the extended chain co	onformatic	on					
	<ul> <li>A) have a cis geometry in their peptide bonds.</li> </ul>								
	B)	<ol> <li>are equivalent to the b-sheet structure</li> </ol>							
	C)	have $\psi = \phi = 180^{\circ}$ .							
	D)	<ul> <li>D) Decrease the resonance stabilization of the peptide unit.</li> </ul>							
46.	The	important generalization fro	m Anfinse	en's work on RNaseA was that:					
	A)	100% enzyme activity co	rresponds	to the native conformation.					
	B)	Cys-SH groups are not for	ound in viv	vo.					
	C)	disulfide bonds (S-S) in p	oroteins ca	in be reduced in vitro.					
	D)	<ul> <li>the sequence of a protein determines its structure.</li> </ul>							

47.	Pompe's disease is due to the deficiency of								
	A)	Glucose-6-phosphatase	B)	Acid maltase					
	C)	Liver phosphorylase	D)	Muscle phosphorylase					
48.	Site	Site directed mutagenesis is a method used to:							
	A)	Modify amino acids with o	hemical	reagents					
	B)	Directly alter the amino ac	id seque	nce of a protein					
	C)	Mutate organisms through ionization							
	D)	Change the sequence of D	NA						
49.		A PCR reaction that continues for 30 cycles will produce approximately how many PCR products from a single template DNA molecule?							
	A)	64	B)	128					
	C)	128,000	D)	Approximately I billion					
50.	Cyst	ic fibrosis results from defect	ive ion c	hannels for					
	A)	Na+	B)	CI-					
	C)	Ca++	D)	H+					

Question Booklet Sr. No. 036017 Question Booklet Series : A

# Ph.D. Entrance Test - 2014

## Subject: Bio-Physics

## Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Answ	ver Sheet Serial No		
		Signature of the Cana	lidate
Time: 60 min	utes Number	of Ouestions: 50	Maximum Marks: 50

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided
- Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- 5. Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Ouestion Booklet.
- If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

#### 1074

- Gases such as oxygen and carbon dioxide cross the plasma membrane by:
  - A) secondary active transport
  - B) passive diffusion through the lipid bilayer
  - Specific gas transport proteins
  - D) primary active transport
- The sodium pump
  - A) Exchanges extracellular Na+ for intracellular K+
  - B) Is important for maintaining a constant cell volume
  - Can only be inhibited by metabolic poisons
  - D) Is an ion channel
- Which of the following statements regarding exocytosis is correct?
  - A) Is always employed by cells for secretion
  - B) Is used to deliver material into the extracellular space
  - Takes up large molecules from the extracellular space
  - Allows the retrieval of elements of the plasma membrane
- The resting membrane potential is mainly determined by:
  - A) the CI- gradient
  - B) the Ca2+ gradient
  - C) the Na+ gradient
  - D) the K+ gradient
- 5. PCR is used for
  - A) reverse transcribing RNA into DNA
  - B) digesting proteins
  - C) digesting DNA
  - D) amplifying DNA
- Cloning vectors
  - A) are always plasmids
  - B) contain an origin of replication
  - have an average size of 20 kilobase pairs (kb)
  - D) are always circular molecules
- DNA
  - A) is a positively charged molecule at neutral pH
  - B) contains phosphate
  - is always double-stranded
  - D) has a diameter of around 2 μm

The discovery of green fluorescent protein (GFP) has greatly facilitated living cell 8. experiments because A) GRP is green B) GFP requires a jellyfish-specific cofactor GFP sequences may be readily fused to those of other proteins C) wild-type GFP folding is adapted to normal sea water temperatures, D) The products of exactly which genes assess cell damage and coordinate the repair 9. process? A) oncogenes tumor-suppressor genes B) C) proto-oncogenes activator genes D) Why is a mutation in the p53 gene so important? 10. cells grow in size and multiple nuclei develop A) cell division is uncontrolled B) C) the ras gene is inhibited D) cell division is stopped A 1H NMR spectrum of compound C contains a singlet, a triplet and a quartet. Which 11. of the following compounds might C be? CH3CCl2CH2CH3 A) CH3CH2CH2CHCl2 B) C) CH3CH2CHCICHCI2 D) CH3CHCICHCICH3 When an external magnetic field is applied, what happens to the protons in a sample? 12. All protons align with the field. A) All protons align opposite to the field. B) Some protons align with the field and some align opposite to it. C) D) All protons assume a random orientation The wavenumber of a transition is 2000 cm<sup>-1</sup>. In what part of the electromagnetic 13. spectrum does this come? A) Infrared. B) Radiowave. C Microwave. Ultraviolet-visible. D)

- A) Wavelength is directly proportional to energy.
- B) Wavenumber is directly proportional to wavelength.
- Wavelength is directly proportional to frequency.
- Wavenumber is directly proportional to energy.

15.	Whic	th of the following is not a use for mass spectrometry?
	A)	calculating the isotopic abundance in elements
	B)	investigating the elemental composition of planets
	C)	confirming the presence of O-H and C=O in organic compounds
	D)	calculating the molecular mass of organic compounds.
16.	Hom	ologous genes:
		E CONTROL OF THE CONT
	A)	Would be expected to have very similar sequences in related organisms.
	B)	Would be expected to be more similar in distantly related organisms rather
		than in closely related organisms.
	C)	May have become similar to each other by random mutation.
	D)	have same functions
17.	Whic	ch of the following is not an example of ionizing radiation?
	A)	alpha
	B)	beta
	C)	gamma
	D)	microwave
18.	Whi	ch of the following is not a unit radiation dose or exposure?
	A)	rad
	B)	roentgen
	C)	curie
	D)	roentgen
19.	A su	bstance can only be accumulated against its electrochemical gradient by:
	A)	facilitated diffusion
	B)	Passage through ion channels
	C)	Diffusion through a uniport
	D)	Active transport
20.	Alla	are sequence alighnment tools except
	A)	Rasmol
	B)	BLAST
	C)	FASTA
	D)	Clustal W
	10 (max = 1)	
21.		two most common processes that lead to production of multiple functional eins from the same DNA sequence are:
	A)	RNA editing and alternative splicing.
	B)	Protein folding and posttranslational covalent modifications.
	C)	Alternative splicing and posttranslational covalent modifications.
	D)	Posttranslational covalent modification and transcriptional regulation.
		3

22.	Restr	riction fragment length polymorphisms (RFLPs)	
	A) B) C) D)	Are used to determine the position of restriction sites in a genome Are used in physical mapping Are used in genetic mapping Usually occur as multiple (more than 2) alleles in a genome	
23.	β-she	eets are stabilized by	
	A) B) C) D)	hydrophobic bonds ionic bonds hydrogen bonds covalent bonds	
24.	cGM	IP phosphodiesterase catalyzes the conversion of	
	A) B) C) D)	cAMP to cGMP cGMP to 5'-GMP GTP to cGMP cGMP to GDP	
25.	Allo	of the following properties about nitric oxide are true EXCEPT:	
	A) B) C) D)	is a gas is synthesized from O2 and arginine has a half-life of 2-3 minutes activates guanylyl cyclise	
26.	Calm	nodulin	
	A) B) C) D)	is an ubiquitous protein in eukaryotic cells binds Ca2+ is a membrane bound protein a and b	
27.	Wha	at is the normal role of telomerase?	
	A) B) C) D)	repairs broken strands of chromosomes builds telomeres in embryonic cells builds new DNA in cancerous cells builds and repairs proto-oncogenes	
28.	Wha	at is cancer of the bone marrow stem cells that produce white blood cells	called?
	A) B) C) D)	carcinoma leukemia sarcoma lymphoma	
29.	Whi	ich list below gives only spin active nuclei?	
	A) B) C) D)	<sup>2</sup> H, <sup>12</sup> C, <sup>19</sup> F <sup>1</sup> H, <sup>2</sup> H, <sup>12</sup> C <sup>1</sup> H, <sup>13</sup> C, <sup>19</sup> F <sup>1</sup> H, <sup>12</sup> C, <sup>19</sup> F	
		4	

- Which of the following statements is FALSE about the NMR experiment.
  - A) The energy required to flip the spin of a proton is in the infrared region of the electromagnetic spectrum.

B) The energy difference between the two spin states depends on the strength of the magnetic field.

- When energy absorption occurs, the nuclei are said to be in resonance with the electromagnetic radiation.
- When a proton is aligned with the magnetic field, its energy is lower than when it is aligned against the magnetic field.
- 31. According to the Beer-Lambert Law, on which of the following does absorbance not depend?
  - A) Distance that the light has travelled through the sample.
  - B) Colour of the solution.
  - C) Solution concentration.
  - Extinction coefficient of the sample.
- 32. Which of the following statements is correct?
  - Ultraviolet radiation has a longer wavelength than infrared radiation.
  - Infrared radiation has a lower wavenumber than visible light.
  - Microwave radiation possesses more energy than infrared radiation.
  - Infrared radiation has a shorter wavelength than visible light.
- 33. Which one of the following statements about ionisation in a mass spectrometer is incorrect?
  - gaseous atoms are ionised by bombarding them with high energy electrons
  - atoms are ionised so they can be accelerated
  - atoms are ionised so they can be deflected
  - it doesn't matter how much energy you use to ionise the atoms
- 34. In a NMR spectrum, in the triplet, the relative peak areas are in the ratio...
  - A) 1:1:1
  - B) 1:2:1
  - C) 1:3:1
  - D) 1:4:1
- 35. C-14 is radioactive. The activity and daughter products are
  - A) α active and Be-10
  - B) β active and B-14
  - C) γ active and C-14
  - D) β active and N-14

36.	The p	protein component of Rhodopsin molecule is
	A)	11-cis retinal
	B)	11-trans retinal
	C)	Retinene
	D)	Scotopsin
37.	In ge	ne therapy, DNA is inserted into a cell to compensate for
	A)	The absence of plasmids
	B)	Mutant alleles
	C)	Holes in the DNA made by viruses
	Đ)	They lack copy of DNA
38.	Whic	ch of the following is not secreted directly into the blood stream
	A)	Steroid hormone
	B)	Neurotransmitter
	C)	Peptide hormone
	D)	Neurohormone
39.		determine the molecular weight of unknown protein, the most appropriate nique would be
	A)	<sup>1</sup> H NMR spectroscopy
	B)	<sup>13</sup> C NMR spectroscopy
	C)	Mass spectroscopy
	D)	IR spectroscopy
40.	Men	abrane fluidity is controlled by
	A)	Fatty acid composition
	B)	Fatty acid composition and cholesterol content
	C)	Cholesterol content
	D)	Glycerol composition
41.	A R	amachandran plot
	A)	Represents the sterically allowed conformations of a polypeptide backbone
	B)	Gives the frequency of occurrence of amino acids
	C)	Predicts the α helical structure from amino acid sequence
	D)	Shows the X ray diffraction pattern from amino acid sequence
42.		i-PAGE and isoleletrical focusing method for separation of proteins have which of following characteristics in common
	A)	A separate native protein
	B)	Make use of an electric field
	C)	Separate proteins according to their mass
	D)	Require a pH gradient
		6

43.	Whic	ch of the following is the sensitive indicator of proteins
	A) B) C) D)	Circular dichorism Gel chromatography Gel electrophoresis Affinity chromatography
44.	Telo	centric chromosomes differ from acrocentric chromosomes in having
	A) B) C)	Terminal centromere as compared to subterminal centromere in the latter Terminal centromere as compared to medianly located centromere in the latter Subterminal centromere as compared to medianly located centromere in the latter Subterminal centromere as compared to submedian located centromere in the latter
45.	Loop	es of lampbrush chromosome possess
	A) B) C) D)	DNA,RNA and proteins DNA and RNA DNA and proteins DNA
46.	Lipid	i molecules of plasma membrane are arranged
	A) B) C) D)	Alternately In series Parallel Scattered
47.	Ubiq	uinone is
	A) B) C) D)	Protein co-enzyme Non-protein co-enzyme Activator Protein co-activator
48.	DNA	/chromosome replication takes place during
	A) B) C) D)	G1-phase G2 phase S-phase Prophase
49.	The	active site of an enzyme is formed by a few of the enzyme's
	A) B) C) D)	R groups of the amino acids Amino groups of the amino acids Carboxyl groups of the amino acids Exposed sulfur bonds
50.	Whi	ch of the following is the molecular scissors in genetic engineering
	A) B) C) D)	Exonucleases Primase Endonucleases DNA ligase

Question Booklet Sr. No. 037117 Question Booklet Series : A

# Ph.D. Entrance Test - 2014

Subject: Chemistry

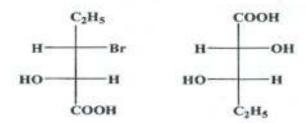
### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Answe	er Sheet Serial No.		]
		Signature of the Cana	lidate
Time: 60 minu	tes Number o	of Ouestions: 50	Maximum Marks: 50

- 1. Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
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### 1. The following pair is described as



- A) Enantiomers
- B) Epimers
- C) Identical Isomers
- D) Constitutional Isomers
- Cyclohexane protons show three vicinal coupling constants (J<sub>vic</sub>) in the PMR spectrum. Indicate whether J<sub>(xx-ax)</sub> is
  - A) equal to J<sub>ax-eq</sub>
- B) greater than J<sub>eq-eq</sub>
- C) less than Jeg-eq
- D) less than J<sub>ax-eq</sub>
- 3. An E-olefin which is symmetrically disubstituted
  - A) will always be trans
- B) will always be cis
- C) can never be cis
- D) can be cis or trans
- 4. Which of the following structures represents a trans Cyclohexane?

B. CH<sub>3</sub>

c. Br

D. H.CH,

# 5. Which of the following compounds is chiral?

# 6. Which of the following structures has 'S' configuration at the Chiral centre?

7. Which of the following conjugated dienes will not react with a dienophile?

8. Which of the following compounds has a meso stereoisomer?

9. Which of the following species is a weakest nucleophile?

10.		h of the following is most in mone?	itense	peak in the Mass Spectrum of 2-
		A. CH <sub>3</sub>		
		в. 🕏		-
		с. сн₃со		
		р. сн₃сосн₃		
11.		h of the following phenomeno cation?	on is n	esponsible for the stability of ethyl
	A) C)	Resonance Hybridization	B) D)	Hyper-conjugation Planarity
12.	Whic	h of the following options of re	agents	will convert I to II
		0 0	0	OR'
		1	П	
	A) C)	Aq. NaOH m-chloroperbenzoic acid	B) D)	Molecular O <sub>2</sub> trifluromethane sulphonic acid
13.	PMR equal		H <sub>3</sub> ) <sub>2</sub> Cl	H <sub>3</sub> will show number of resonances
	A) C)	1 B) D)	2 6	
14.		h of the following rearrangemente to o-hydroxy acetophenone?		responsible for conversion of phenyl
	A) C)	Claisen rearrangement Fries rearrangement	B) D)	Hoffmann rearrangement Cope rearrangement
15.	C <sub>6</sub> H <sub>1</sub>	1CONH2 on reaction with NaO	Br wil	I produce
	A) C)	C <sub>6</sub> H <sub>11</sub> NH <sub>2</sub> C <sub>6</sub> H <sub>11</sub> CO C <sub>6</sub> H <sub>11</sub>	B) D)	C <sub>6</sub> H <sub>11</sub> CH <sub>2</sub> NH <sub>2</sub> C <sub>6</sub> H <sub>11</sub> .C <sub>6</sub> H <sub>11</sub>
16.	Whic	ch of the following pair of react	ants ca	an produce anisole?
	A) C)	C <sub>6</sub> H <sub>5</sub> OH and CH <sub>3</sub> OH C <sub>6</sub> H <sub>5</sub> O' and CH <sub>3</sub> I	B) D)	C <sub>6</sub> H <sub>5</sub> Br and CH <sub>3</sub> Br CH <sub>3</sub> O and C <sub>6</sub> H <sub>5</sub> Br
17.	Diels	s-Alder reaction can be classifie	ed as	
	A) C)	Electrocyclic reaction Sigmatropic rearrangement	B) D)	Cycloaddition reaction Ring expansion reaction

18.	Whic	ch one of the follow	ing species has	the s	hortest bond length?	
	A)	NO	B)		NO <sup>+</sup>	
	C)	NO <sup>2+</sup>	D)		NO.	
19.		an atom with princip ng l=3 corresponds		mber	n=4, the total number of orbi	tals
	19:39	1.27	100			
	A)	3	B)		5	
	C)	7	D)	61	9	
20.	Whic	ch one of the follow	ing has magnes	ium?		
	A)	Vitamin B <sub>12</sub>	B)	XS.	Chlorophyll	
	C)	Haemoglobin	D	)	Carbonic anhydrase	
21.		The spin magnet	ic moment in th	e cor	npound, Hg[Co(SCN)4]is:	
	A)	√3	B)		√8	
	C)	√15	D		√24	
	C,	713			124	
22.		a's compound in ulation:	organometallic	cher	nistry is assigned the follow	ing
	A)	RhCl(Ph <sub>3</sub> P) <sub>3</sub>	B	)	RhCl(CO)(Ph <sub>3</sub> P) <sub>2</sub>	
	C)	RhCl <sub>3</sub> (Ph <sub>3</sub> P)	D	0.40	IrCl (CO)(Ph <sub>3</sub> P) <sub>2</sub>	
23.	Wha	t type of hybridisati	on is involved i	in CI	F <sub>3</sub> ?	
	A)	$sp^2$	В	1	sp	
	C)	$sp^3d^l$	D		sp³d²	
24.	Gro	und state term for d	eonfigurations	s in		
	A)	<sup>3</sup> F	В	1	<sup>3</sup> P	
	C)	¹G	D		¹S	
25.	5040	point group of BF <sub>3</sub>	0577 202		*	
	A)	C <sub>2v</sub>	В	)	C <sub>3v</sub>	
	C)	$D_{3h}$	D	)	D <sub>3d</sub>	
26.	The	oxidation state of n	itrogen in NH <sub>4</sub> N	NO <sub>3</sub> i	s:	
	A)	+3	В	)	+5	
	C)	+3 and +5	D	r.,	-3 and +5	
27.	Whi	ch of the following	will have highe	st CO	stretching frequency?	
	AN	0.400	n'	V.	DM=/CO).1+	
	A)	Cr(CO) <sub>6</sub>	B	E	[Mn(CO) <sub>6</sub> ] + [Fe(CO) <sub>4</sub> ] 2-	
	C)	[V(CO) <sub>6</sub> ]	D	,	[re(co)4]	

res		coordination numbe tively	r and geometi	y or certur	ii iii [CC(14D3)6]
A) C)	600	6 and octahedron 8 and cubic	B) D)	6 and pent	agonal bipyramidal
	,	o and cubic	D)	12 and ico	Sancuron
W	hich	of the following int	erhalogen comp	ound is not l	known?
A	)	IF <sub>5</sub>	B)	CIF3	
C		FCl <sub>3</sub>	D)	BrF <sub>3</sub>	
T	he sp	pecie [Co(CO)3] is is	olobal with		
A	)	CH <sub>3</sub>	B)	CH <sub>2</sub>	
C)		CH	D)	CH <sub>4</sub>	
		species has the m	aximum numb	er of lone p	air of electrons on
ce	mua	dionii			
A)		[ClO <sub>3</sub> ]	B)	XeF <sub>4</sub>	
250	)		B) D)	XeF <sub>4</sub>	
A) C)	)	[ClO <sub>3</sub> ]	D)	[I <sub>3</sub> ] <sup>-</sup>	structure?
A) C)	) hich	[ClO <sub>3</sub> ] <sup>-</sup> SF <sub>4</sub>	D)	[I <sub>3</sub> ] <sup>-</sup>	structure?
A) C) W	) /hich	[ClO <sub>3</sub> ] <sup>-</sup> SF <sub>4</sub> one of the following	D) g molecules/ion	[I <sub>3</sub> ] has a planar	structure?
A) C) W A) C)	) Thich ) )	[ClO <sub>3</sub> ] <sup>-</sup> SF <sub>4</sub> one of the following	D) g molecules/ion B) D)	[I <sub>3</sub> ] has a planar  XeF <sub>4</sub> CCl <sub>4</sub>	
A) C) W A) C)	) /hich ) ) /hich	[ClO <sub>3</sub> ] <sup>-</sup> SF <sub>4</sub> one of the following BF <sub>4</sub> SF <sub>4</sub> of the following co	D) g molecules/ion B) D) mpound cannot	[I <sub>3</sub> ] has a planar  XeF <sub>4</sub> CCl <sub>4</sub> be oxidized	
A) C) W A) C)	hich  hich  hich	[ClO <sub>3</sub> ] <sup>-</sup> SF <sub>4</sub> one of the following BF <sub>4</sub> <sup>-</sup> SF <sub>4</sub>	D) g molecules/ion B) D) mpound cannot	[I <sub>3</sub> ] has a planar  XeF <sub>4</sub> CCl <sub>4</sub>	
A) C) W A) C) W A) C)	hich hich hich hich	[ClO <sub>3</sub> ] <sup>-</sup> SF <sub>4</sub> one of the following BF <sub>4</sub> <sup>-</sup> SF <sub>4</sub> of the following co	D) g molecules/ion B) D) mpound cannot B) D)	[I <sub>3</sub> ] has a planar  XeF <sub>4</sub> CCl <sub>4</sub> be oxidized  FeSO <sub>4</sub> K <sub>2</sub> MnO <sub>4</sub> aceticacid) m	by O₃?
A) C) W A) C) W A) C)	hich hich hich hich hich hich	[ClO <sub>3</sub> ]  SF <sub>4</sub> one of the following  BF <sub>4</sub> SF <sub>4</sub> of the following co  KI  KMnO <sub>4</sub> many EDTA (ethylo	D) g molecules/ion B) D) mpound cannot B) D)	[I <sub>3</sub> ] has a planar  XeF <sub>4</sub> CCl <sub>4</sub> be oxidized  FeSO <sub>4</sub> K <sub>2</sub> MnO <sub>4</sub> aceticacid) m	by O₃?

35.	The	ratio Cp/Cv is lowest for wh	ich of th	e following gas
	A) C)	SO <sub>2</sub> N <sub>2</sub>	B) D)	20047
36.	For a	cyclic process:		
	A) C)	Both $\Delta U$ =0 and $\Delta H$ =0 $\Delta U$ =0	B) D)	
37.	The i	interplanar distance of (212	) plane i	s 1Å. The edge length of the unit cell is
	A) C)	0.5 Å 7 Å	B) D)	5 Å 3 Å
38.	Whic		ession is	correct for estimating "mass average mol-
	A)	$\overline{M_{sr}} = \sum n_i M_i / \sum n_i$	B)	$\overline{M}_{M} = \sum n_{i} M_{i}^{2} / \sum n_{i} M_{i}$
	C)	$\overline{\mathbf{M}_{st}} = \sum_{i} \mathbf{n}_{i} \mathbf{M}_{i} / \sum_{i} \mathbf{n}_{i}$ $\overline{\mathbf{M}_{st}} = \sum_{i} \mathbf{n}_{i} \mathbf{M}_{i}^{z} / \sum_{i} \mathbf{n}_{i} \mathbf{M}_{i}$	D)	$\overline{\mathbf{M}}_{M} = \sum_{i} \mathbf{n}_{i} \mathbf{M}_{i}^{2} / \sum_{i} \mathbf{n}_{i}$
39.	of reac		1 to 0.05	d that it takes 156 seconds for the concentration of M. How much time would it take for the to 0.0250 M?
	A) C)	312 s 156 s	B) D)	
40.	The	optical density of a solution	which s	shows 40% transmittance is
	A) C)	0.398 0.796	B) D)	
41.		ifferent flasks contain gas e gas molecules be moving		s at 298 K. In which of the following sample est?
	A) C)	N <sub>2</sub> O <sub>2</sub>	B) D)	H <sub>2</sub> CO <sub>2</sub>
42.				e reaction PCl <sub>5</sub> $\iff$ PCl <sub>3</sub> + Cl <sub>2</sub> K <sub>P</sub> = 4 x 10 <sup>4</sup> degree of dissociation of PCl <sub>5</sub> becomes 0.6.
	A) C)	1.1 x 10 <sup>5</sup> Pa 7.1 x 10 <sup>4</sup> Pa	B) D)	1.1 x 10 <sup>4</sup> Pa
43.	The	diffusion current in a polar	ogram is	proportional to
	A) C)	Wave height The migration current	B) D)	The residual current The concentration of supporting electrolyte
44.	Whic	ch of the following express	ion repre	esent the criterion of spontaneity?
	A) C)	$(dG)_{T,P} < 0$ $(dU)_{S,T} < 0$	B) D)	5 TSO G. 1785
			7	

100			-Lua-bar	t by the reacting system that is effective in
45.		only the radiation actually ucing a chemical reaction'.	absorbed	i by the reacting system that is effective in
	A) C)	Lambert law Lambert-Beer law	B) D)	Grothus-Draper Law Einstein-Stark Law
46.	The	nolecule that yields three rot	tational co	onstants in microwave spectrum is
	A) C)	Spherical top Prolate symmetric top	B) D)	Asymmetric top Oblate symmetric top
47.	The	units of 'a' the vander Waal'	s constan	at are
	A) C)	atm lit <sup>2</sup> mol <sup>-2</sup> atm lit <sup>-1</sup> mol <sup>-1</sup>	B)	atm lit mol <sup>-1</sup> atm lit <sup>-2</sup> mol <sup>-2</sup>
48.	UV:	absorption band of cyclohex	enone at	λ <sub>max</sub> ~215 nm is due to transition
	A) C)	$\pi \longrightarrow n$ $\pi \longrightarrow \pi^*$	B) D)	$\sigma \longrightarrow \sigma^*$ $\sigma \longrightarrow n$
49.		value of van't Hoff factor 'n n by the expression	in case	of dimerisation of benzoic acid in benzene is
	A)	$i = I + \alpha$		

B)

C)

D)

C)

50.

 $i = I - \alpha$ 

 $i = 1 + \frac{\alpha}{2}$ 

 $i = 1 - \frac{\alpha}{2}$ 

Partial molar entropy

Partial molar volume

Variation of chemical potential with pressure results

B)

D)

Partial molar enthalpy

Partial molar internal energy

# Ph.D. Entrance Test - 2014

# Subject : Forensic Science & Criminology

### Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words
O.M.R. An	swer Sheet Serial No	
		Signature of the Candidate
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Time: 60 minutes

Number of Questions: 50

Maximum Marks: 50

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- Do not make any identification mark on the Answer Sheet or Question Booklet.
- Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

- Which factor influence the final appearance of blood strain which is formed when blood droplet strikes a surface
  - (A) Impact Volume
  - (B) Target surface absorbency
  - (C) Target surface texture
  - (D) Bloodstain pattern
- 2. The post-mortem condition of the hypostases is also known as
  - (A) Liver mortis
  - (B) Cadaveric spasm
  - (C) Putrification
  - (D) Rigor mortis
- Calculate the approximate diameter of the crater which is expected to be produced by a bomb consisting of 210 kg of explosive.

Given  $W \approx d^3/16$  where W = weight of charge (kg) and d = diameter of crater (m)

- (A) 20m
- (B) 15m
- (C) 16m
- (D) 22m
- 4. A musket is
  - (A) Carbine firearm
  - (B) Shortened version of rifle
  - (C) Smooth bored military shoulder firearm
  - (D) Another form of LMG
- 5. The severity of wound, as determined by the size of temporary cavity is related to
  - (A) Amount of K.E. lost in the tissue
  - (B) Total energy possessed by the bullet
  - (C) The penetration parameter of the bullet
  - (D) Level of perforation in the tissue

- 6. Which component of R blood cells is responsible for the peroxidase like activity of blood
  - (A) Hematoperoxidase
  - (B) Hemoglobin
  - (C) Globulinperoxidase
  - (D) Globulinase
- In the SGM<sup>+</sup>, most of the loci are present in regions of 'junk' DNA or in the intron region of genes. The outcome is
  - (A) The genotype at these loci not indicating anything about the physical attributes of the person
  - (B) The genotype having no health implication for carrier
  - (C) Alleles being selectively neutral
  - (D) Phenotype not being influenced by genotype
- 8. The Dequenois Levine test is used to screen which of the following drug
  - (A) Heroin
  - (B) Cocaine
  - (C) Caffeine
  - (D) Marijuana
- 9. Primary explosives undergo a very rapid
  - (A) Burning to detonation
  - (B) Explosion
  - (C) Burning to deflagration
  - (D) Deflagration to detonation
- 10. The major problem faced during STA (Systematic Toxicological Analysis) is
  - (A) Requirement of integrated instrument
  - (B) Complication due to immunoassays compatibility
  - (C) Scarcity of sample
  - (D) Cross reactivity of some samples
- 11. In case of suspicious deaths, 'syncope' stands for
  - (A) Failure of nervous system
  - (B) Failure of circulatory system
  - (C) Failure of respiratory system
  - (D) Failure of lymphatic system
- On an incised wound, the continuous layer of epidermal cell covers the surface, overlying this is a crust or scab of dried clot. This happens in (A)24 hrs

- (B) 4 hrs
- (C) 36 hrs
- (D) 10 hrs

### 13. P300 specifies

- (A) The electronic temperature detector in GC
- (B) The electronic signal which appears on recognition
- (C) Coding for perishable evidence
- (D) Backlit area in photon coding of documents

### 14. ISO/IEC 17025 provides

- (A) Requirement for the competence of testing and calibration laboratories
- (B) Terms and conditions for laboratory accreditation
- (C) Requirements in compliance with manual for setting laboratory
- (D) Standards for the laboratory testing

#### 15. Blunt trauma refers to

- (A) Injuries caused by sharp objects
- (B) Fracture and external bruising
- (C) Condition of shock state due to injury
- (D) Multiple fracture due to hitting by blunt object

#### 16. How does double-beam scanning spectrometer works

- (A) It gives double beam and signal is intensified
- (B) It measures simultaneous transmittance of sample and solvent
- (C) Double beam covers broader area while measuring absorbance
- (D) Two intensities due to double beam are not compared and focusing of beam is done

### 17. Which of the following is not a fingerprint pattern

- (A) Whorl
- (B) Composite
- (C) Central packed loop
- (D) Plain arch

### 18. LSD was first synthesized from

- (A)Lysergsaure
- (B) Ergotamine
- (C) Ergoline
- (D) Diethylamide

#### 19. DNA fingerprinting was first used to successfully identify a murder suspect in

- (A) 1980
- (B) 1985
- (C) 1988
- (D) 1982
- 20. If a researcher conducting an experiment on testing a hypothesis, doubles its sample size, which of the following would increase?
  - (A) The power of the hypothesis test
  - (B) The effective size of the hypothesis test
  - (C) The probability of making a type II error
  - (D) The probability of getting alternative hypothesis
- Bruising of the muscles of neck and larynx with fracture of thyroid cartilage and hyoid bone is seen in death due to
  - (A) Hanging
  - (B) Throttling
  - (C) Traumatic asphyxia
  - (D) Ligature strangulation
- 22. The first Fingerprint bureau was established in
  - (A) England
  - (B) United States of America
  - (C) India
  - (D) France
- There are different parameters to find the time of death. One is Rigor mortis -'stiffness
  of death' and another is Livor mortis or lividity. This term refers to
  - (A) Degree of digestion of stomach content
  - (B) Relaxation of muscles subsequent to RM
  - (C) Gravitational pooling of blood
  - (D) Tightening of muscle of body
- 24. Refractive index of glass is the function of
  - (A) Material and composition ratio
  - (B) Thermal history and composition ratio
  - (C) Type of material and thermal history
  - (D) Annealing temperature and the ratio of SiO<sub>2</sub> with CaCO<sub>3</sub>
- 25. The major constituent of India ink is
  - (A) Iron
  - (B) Carbon

(C) Tudo dye	-
(D) Water	
26. 'Spurious Signature' is a very interesting phenomenon and	is encountered when
(A) Transmitted light technique is used	
(B) Slight modification with much efforts is done	
(C) Simulation is carried with skill	
(D) Unfamiliar characters are introduced	
27. In hypothesis testing, which of the following statement is al	ways true
(A) The P-value is greater than the significance level	STAR AND STAR
(B) The P-value is test statistic	
(C) The P-value is computed from the significance level	
(D) The P-value is a probability	
28. The concept of designer drugs gained importance in 1980s.	It tells about
(A) Psychoactive substances not under legal control	
(B) New drug molecules with altered properties	
(C) Herbal drugs with hallucinogenic properties	
(D) Drug analogs	
<ol> <li>In case of segmental analysis of hair, to evaluate the present of hair taken for investigation is</li> </ol>	nce of drugs of abuse, the par
(A)Root segment	
(B) Distal and proximal segment	
(C) Middle segment	
(D) Multiple segments	
30. Drugs for which no 'immunoassays' are available can be so	reened by
(A)TLC	
(B) CZE	
(C) Microtiter plates	

- (A) Iron salts
- (B) Carbon residue

(D) Lyophilization

- (C) Synthetic dyes
- (D) Organic solvents

- An explosive charge with high VOD and high detonation pressure, designed for initiation and enhancement of explosive effect
  - (A) Detonator
  - (B) Blasting cap
  - (C) Booster
  - (D) Primary explosive
- 33. Non-verbal methods of lie detection does not include
  - (A) Brain imaging
  - (B) Facial analysis
  - (C) Eye tracking
  - (D) Narco analysis
- Pharmacopoeia of marine derived biotoxin includes 'domoic acid', which is responsible for
  - (A) Paralytic shellfish poisoning
  - (B) Ciguatera shellfish poisoning
  - (C) Diarrhetic shellfish poisoning
  - (D) Amnesic shellfish poisoning
- 35. The major effect of destruction by an explosive compound is the result of
  - (A) Positive blast pressure
  - (B) Negative blast pressure
  - (C) Fragmentation effect
  - (D) Ancillary effect
- 36. What is the cause of hooch tragedies?
  - (A) Ethyl alcohol
  - (B) Ethyl acetate
  - (C) Methanol
  - (D) Acetic acid
- Restoration of any crase number from the steel surface can be done using
  - (A) Fry's reagent
  - (B) DPA reagent
  - (C) Etching reagent
  - (D) Villela's reagent
- 38. Nitrogen mustard is a type of
  - (A) Drug of abuse
  - (B) High energy explosive

	(C) Weapon of mass destruction (D) Plant poison
39.	The tool marks from stone, concrete and wood can be lifted by using  (A) 33% HCl solution  (B) Cellulose acetate dissolved in acetone  (C) Husk meal dissolved in ethanol  (D) 43%HCl in ethyl acetate
40,	Forensic science starts its investigation from 'objective tests'. This test does not include (A) Documentation of test (B) Surveying of laboratories (C) Validation of test (D) Training and authorization of staff
41.	How NMR signal will appear for CH <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> and C <sub>6</sub> H <sub>6</sub> (A) Spin coupling  (B) Triplet  (C) Singlet  (D) Quartet
42.	3-indoxy sulphuric acid in urine can be detected by  (A) ELISA  (B) RIA  (C) IMS  (D) TLC
43.	The fundamental vibrational frequency o HCl is 2,890 cm <sup>-1</sup> . Calculate the approximate force constant of this molecule. Atomic mass of <sup>1</sup> H=1.673x10 <sup>-27</sup> kg and <sup>35</sup> Cl=58.06x10 <sup>-27</sup> kg  (A) 488 Nm <sup>-1</sup> (B) 484 Nm <sup>-1</sup> (C) 486 Nm <sup>-1</sup> (D) 480 Nm <sup>-1</sup>
44	Which of the following is a derivative of isoquinoline group?  (A) Papaverine (B) Thebaine (C) Codine (D) Morphine

- 45. Mirror test is the test for
  - (A) Circulation
  - (B) Drowning
  - (C) Poisoning
  - (D) Respiration
- 46. Which of these molecules is IR-inactive but Raman-active
  - (A) N<sub>2</sub>
  - (B) HCI
  - (C) NO<sub>2</sub>
  - (D) Proteins
- 47. What antidote of oxalic acid is available readily at home
  - (A) Dust
  - (B) Cowdung
  - (C) Wall scrap
  - (D) Charcoal
- 48. A monochromatic radiation is incident on a solution of 0.05 molar concentration of an absorbing substance. The intensity of radiations is reduced to ¼<sup>th</sup> of initial value after passing through 10 cm length of the solution. What would be the approximate value of extinction coefficient
  - (A) 1.2 dm3mol-1cm-1
  - (B) 2.4 dm3mol1cm1
  - (C) 3.6 dm3mol7cm1
  - (D) 4.8 dm3mol-1cm-1
- The result of phadebas press test are interpreted as the presence of amylase indicated through
  - (A) Red color
  - (B) Blue color
  - (C) Yellow color
  - (D) Pink color
- 50. The amendment of Rule-702 pertains to
  - (A) Testimony by experts
  - (B) Empirical testing
  - (C) Testimony by expert witness
  - (D) Testimony by scientific experts

# Ph.D. Entrance Test - 2014

# Subject: Human Genome Studies & Research Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words
O.M.R. An	swer Sheet Serial No.	
		Signature of the Candidate

Time: 60 minutes

Number of Questions: 50

Maximum Marks: 50

- 1. Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
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# 

1.	In m	ammalian cells which of the fo	Howing	g can transport organic molecules
	A) C)	P-type transporters ABC transporters	B) D)	F-type transporters E1-E2 type transporters
2.	Com	mensal microbiota provides de	fence a	against microorganism invading through
	A) C)	Intestine Lungs	B) D)	Skin! Gut
3.	Whic	ch of the following phenomeno	n can c	ause higher frequency of recessive allele
	A) C)	Hetrozygote manifestation Genetic drift	B) D)	Heterozygote advantage Bottleneck
4.	Muta	ation rate in human is-		
	A) C)	10 <sup>-6</sup> pgpg 10 <sup>-3</sup> pgpg	B) D)	10 <sup>-9</sup> pgpg 10 <sup>-12</sup> pgpg
5.		many generations of randor nce of any disturbing factor	n mati	ing is sufficient to establish HWE in the
	A) C)	01 02	B) D)	10 100
6.		cells which do not divide but given an appropriate stimulus		induced to begin DNA synthesis & divide
	A) C)	Stem cells Kidney cells	B) D)	Liver cells Epithelial cells
7.	D typ	pe cyclins bind to cdks during		
	A) C)	G1-S phase G2-M phase	B) D)	mid-G1 phase Early G1 phase
8.	7-TN	A (Seven transmembrane) recep	ptors a	re also referred to as
	A) C)	RTK receptors Ligand gated channels	B) D)	GPC receptors Steroid hormone receptor
9.	Gluc	agon stimulates		
	A) C)	Lowering of blood sugar Breakdown of Glucose	B) D)	Breakdown of glycogen Biosynthesis of Gylcogen
10.	Jack	knifing is a method for –		
	A) C)	Cluster analysis Phylogeny	B) D)	Validation Homology analysis
11.	Chro	onic rejection of a transplant oc	curs af	ter
	A) C)	02 days Immediate	B) D)	10 days Months
			12	

12.	Sudd	Sudden emergence of new subtype of influenza could be due to					
	A) C)	Antigenic drift Herd immunity	B) D)	Antigenic shift Unhygienic conditions			
13.	Phila	delphia chromosome represe	ents				
	A) B) C) D)	Translocation between che Translocation between che Translocation between che Translocation between che	r. 9 & 22 r. 9 & 21				
14.	First	eukaryotic genome to be cor	npletely	sequenced was that of			
	A) C)	S.cerevisiae C.elegans	B) D)	S. pombe D.melanogaster			
15.	Restr	riction enzyme Not I cleaves nce between cleavage sites o	s at 51-G0 n digestio	CGGCCGC-3'. What would be the average on of double stranded DNA			
	A) C)	56 kb 24 kb	B) D)	66 kb 24 bp			
16.	Apta	mers are					
	A) C)	Short peptides Antibodies	B) D)	Short RNA sequences Short PCR products			
17.	Phen	ocopy refers to					
	A) B) C) D)	Genotype along with dise Genotype without disease Disease manifestation wit Absence of disease and ge	manifest hout gen	tation			
18.	Sick	Sickel cell trait allele is a very good example of					
	A) C)	Positive selection Directional selection	B) D)	Neutral selection Balancing selection			
19.	The first fully human antibody (Humira) has been approved for the treatment of						
	A) C)	Retinitis pigmentosa Cancer	B) D)	Rheumatoid Arthritis Immunodeficiency			
20.	Heri	tability refers to					
	A) C)	total variance that is acqui total variance that is gene		B) fixed property of trait     D) inheritance of trait			
21.		When signalling molecule is tethered to transmitting cell surface and is bound be receptor on the surface of responding cell, it is					
	A) C)	Actucrine signalling Synaptic signalling	B) D)	Paracrine signalling Juxtacrine signalling			

<ol> <li>Discovery of which of the following has made the cell based DNA</li> </ol>			cell based DNA cloning possible					
	A) C)	type I restriction endonucle type III restriction endonucl		B) D)	type II restriction endonuclease DNA Taq polymerase			
23.	Retro	ogene refers to						
	A) C)	Evolutionarily degenerated special nonprocessed pseud		B) D)	special processed pseudogene bacterial gene			
24.	As p	art of HGP, which of the four	model or	ganisn	ns were prioritized for sequencing			
	A) B) C) D)	Chlamydomonas, S.cerevisi E.coli, mouse, D. melanoga C.elegans, P.falciparum, S. S. cerevisiae, E.coli, D.mela	ster, zeb pombe, C	rafish <i>hlam</i>	vdomonas			
25.		probability of being blood ty hat is the probability of being			d the probability of blood type O is pe A or O?			
	A) C)	5/8 1/2	B) D)	1/8 1/16				
26.	If two	If two proteins have overall sequence identity of 50%, then the overall similarity will be						
	A) C)	less than 50% cannot be more than 50%	B) D)		than 50% be less or more than 50%			
27.	Whe	When two oppositely charged groups are close to each other, the interaction is called						
	A) C)	salt bridge covalent bond	B) D)	H- be	ond bond			
28.	The	effective strength of hydrogen	bonds w	ill be				
	A) C)	unaffected by water molecu- weakened by water molecu-			gthened by water molecules ly destroyed by water molecules			
29.	Disu	Disulfide bond is a						
	A) C)	weak bond non-covalent bond	B) D)		lent bond ecial bond			
30.	Which of the following is not a unit of structure found in proteins?							
	A) C)	β sheets loop regions	B) D)	α he γ loc	pps			
31.	RNA	RNA cannot adopt standard Watson-Crick double helical structure because of						
	A) C)	Constraints on its sugar put single stranded	ker B) D)		nce of thymine ence of uracil			
32.	The	DNA double helix is quite						
	A) C)	unstable reactive	B) D)		rmable ructured			
			3					

33.	Ade	nosine platform is an					
	A) C)	DNA element DNA structural motif	B) D)	RNA structural motif Protein element			
34.	An i	solated α-helix in water					
	A) C)	will remain as helix will be unstable	B) C)	will become β-sheet will further compact			
35.	One	amino acid among following u	sually	breaks an alpha helix			
	A) C)	Proline Leucine	B) D)	Glycine Valine			
36.	Uppe	er limit of cell size is probably	set by				
	A) B) C) D)	rate of diffusion of solute m cell membrane genes genome	olecule	s in aq solutions			
37.	The	Adaptor hypothesis by Crick is					
	A) C)	about adaptation about tRNA	B) D)	about evolution about electric circuits			
38.	In ser	In serine proteases, catalytic triad cosnsists of					
	A) C)	serine, glycine, histidine serine, proline, histidine	B) D)	serine, histidine, aspartate serine, leucine, aspartate			
39.	If one has to think of conducting a charge, which polymer is useful						
	A) C)	proteins polysaccharides	B) D)	DNA lipids			
40.	Coon	nassie brilliant blue binds to					
	A) C)	proteins specifically proteins nonspecifically	B) D)	nucleic acids non specifically nucleic acids specifically			
41.	Imprinting involves						
	A) C)	DNA polymerization DNA methylation	B) D)	DNA phosphorylation DNA fragmentation			
42.	Evol	Evolution is:					
	A) C)	directed to a goal a random ongoing process	B) D)	an intelligent design over now			
43.	Biolo	ogical membranes are associate	ed with	all of the following except:			
	A) B) C)	free movement of proteins a sites for biochemical reaction release of protons when dan prevention of free diffusion	ns naged	leic acids across the membrane			

44.	Side	Side chain of serine can act as					
	A) C)	an electrophile a buffer	B) D)	a nucleophile a hook			
45.	The	van der Waals radius of an atom	is				
	A) B) C) D)	a measure of the size of an ato a measure of the bond that ato a measure of its charge a measure of its electric filed		ms			
46.	The o	only genetically encoded amino	acid w	ithout a stereoisomer is:			
	A) C)	glycine lysine	B) D)	tryptophan proline			
47.	Bino	Binomial distribution gives					
	A) B) C) D)	the probability of events with the measurement of event in la precision of the measurement accuracy of the measurement	in bin	digits ary digits			
48.	Which of the following is not a process governed by molecular recognition?						
	A) C)	active transport translation by the ribosome	B) D)	passive diffusion transcription by RNA polymerase			
49,	Inverted repeat sequences are also called						
	A) C)	palindromes nucleosomes	B) D)	triplet repeats double repeats			
50.	Whic	Which of the following is not involved in the process of translation?					
	A) C)	EF-Tu EF-G	B) D)	EF-C RF-3			

Question Booklet Sr. No. 040072 Question Booklet Series : A

# Ph.D. Entrance Test – 2014

Subject: Microbial Biotechnology

## Paper-I

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- During the reduction of FAD<sup>†</sup>
  - (A) two hydrogen atoms are added to the isoalloxazine ring
  - (B) a flavin group is transferred
  - (C) an equivalent of a hydride ion is transferred
  - (D) the isoalloxazine becomes charged
- Evidence indicating that chloroplasts were originally free-living prokaryotes which subsequently evolved a symbiotic relationship with a eukaryotic host includes all of the following except the
  - (A) similarities of rRNA sequences between chloroplasts and free living prokaryotes
  - (B) similarities of structures between chloroplasts and some contemporary free-living prokaryotes
  - (C) presence of circular DNA in chloroplasts and in free-living prokaryotes
  - (D) ability of chloroplasts to synthesize all their own proteins
- 3. Which of the following is a prime example of a ribonucleoprotein enzyme, the catalytic activity of which (under non-physiological conditions), resides solely in its RNA component?
  - (A) reverse transcriptase
  - (B) RNase P
  - (C) cytochrome c
  - (D) bacterial RNA polymerase
- 4. The C in TORCH group refers to
  - (A) Candida albicans
  - (B) Candida lipolytica
  - (C) Cytomegaloviruses
  - (D) Clostridium botulinum
- South American sleeping sickness is also called
  - (A) Chagas disease
  - (B) Hansen's disease
  - (C) Yeast disease
  - (D) Prions disease

- Publication that summarizes the diseases present in the community and their significance published by epidemiologists at CDC is
  - (A) Sign of Disease Report
  - (B) Morbidity and Mortality Weekly Report
  - (C) Diseases of the World Report
  - (D) Disease Control and Pathogen Report
- 7. In allopatric speciation
  - (A) populations occupy the same habitat and there is a reduction in gene flow
  - (B) populations occupy the same habitat and there is a normal gene flow
  - (C) populations occupy a different habitat and there is a reduction in gene flow
  - (D) populations occupy a different habitat and there is a normal gene flow
- Saccharomyces cerevisiae being grown in a chemostat converts glucose to biomass, ethanol, glycerol and carbon dioxide. At steady state, the concentration of glucose, biomass, ethanol and glycerol will
  - (A) decrease with time
  - (B) increase with time
  - (C) be constant
  - (D) change randomly with time
- 9. Yield coefficient represents
  - (A) total biomass or product produced
  - (B) conversion efficiency of a substrate into product
  - (C) conversion rate of a substrate into biomass or product
  - (D) production time of biomass or product
  - If biomass yields are constant, then the biomass productivity of a culture grown in continuous reactor will
    - (A) always decrease with dilution rate
    - (B) increase with dilution rate until washout
    - (C) remain constant irrespective of the dilution rate
    - (D) decrease with dilution rate until washout
- 11. A bacterium having doubling time of 10 minutes, fills a cylindrical vessel completely in 3 hours. How much time will it take to fill half the vessel?
  - (A) 80 minutes
  - (B) 170 minutes
  - (C) 150 minutes
  - (D) 90 minutes
- 12. Bacillus anthracis capsules consist of which one of the following?
  - (A) γ-glutamyl polypeptide
  - (B) hyaluronic acid
  - (C) repeating polysaccharide capsule of glucose and glucuronic acid
  - (D) sialic acid polymers

- 13. In the penicillin-enrichment method, auxotrophic mutants are isolated based on the following principle
  - (A) both the auxotroph and prototroph grow but at different rates in the minimal medium
  - (B) only the prototroph grows and gets killed while the auxotroph remains unaffected
  - (C) while the prototroph grows readily, auxotroph grows with a lag phase
  - (D) only the auxotroph growth is supported by minimal medium
- 14. Which one of the following sequences has helped in identifying eukaryotes, eubacteria and archaebacterial cell types?
  - (A) signature sequence
  - (B) signal sequence
  - (C) Shine-Dalgarno sequence
  - (D) amino-acid sequence
- 15. The pathogenesis associated with Vibrio cholerae infection depends on the colonization of the small intestine by the microorganism and secretion of an enterotoxin. Which one of the following statement related to pathogenicity of cholera is incorrect?
  - (A) Vibrio cholera secretes the enterotoxin choleragen
  - (B) choleragen consists of A (active) and B (binding) subunit
  - (C) choleragen toxin alone cannot reproduce the symptoms of cholera in the absence of Vibrio cholerae
  - (D) CTX bacteriophage carries the genes of cholera toxin and other virulence factors
- 16. A higher K<sub>s</sub> value of Monod's equation means
  - (A) greater affinities to substrate
  - (B) lower affinities to substrate
  - (C) unaffected with the substrate bonding
  - (D) lower dissociation constant value
- 17. Damkohler number (NDs) is
  - (A) the ratio of the maximum reaction rate to the maximum mass transfer rate
  - (B) the ratio of the minimum reaction rate to the maximum mass transfer rate
  - (C) the ratio of the maximum reaction rate to the minimum mass transfer rate
  - (D) the ratio of the minimum reaction rate to the minimum mass transfer rate
- 18. The very fine asexual spores characteristic of ascomycetes are called
  - (A) basidiospores
  - (B) conidia
  - (C) zygospores
  - (D) ascospores
- 19. Which species of protists are known as the "whirling whips" because of the spin produced by two flagella beating in opposing grooves along their hard-surfaced bodies?
  - (A) diatoms
  - (B) chrysophytes
  - (C) dinoflagellates

- (D) golden-brown algae
- 20. Hydroxymethyl cytosine is found in the DNA of
  - (A) simian virus 40
  - (B) phage T4
  - (C) phage QB
  - (D) adenovirus
- Cyclosporin is an immunosuppressive drug given to avoid transplant rejection which acts by
  - (A) inhibition of T cells
  - (B) inhibition of B cells
  - (C) inhibition of immune system
  - (D) inhibition of complement system
- 22. Which is a characteristic of early stages of local inflammation?
  - (A) fever
  - (B) anaphylactic shock
  - (C) release of histamine
  - (D) attack by cytotoxic T cells
- 23. What is a genomic library?
  - (A) a collection of recombinant molecules with inserts that contain all of the genes of an organism
  - (B) a collection of recombinant molecules that have been sequenced
  - (C) a collection of recombinant molecules that express all of the genes of an organism
  - (D) a collection of recombinant molecules with inserts that contain all of an organism's genome
- 24. Which of the following techniques is used to inactivate a gene by altering the DNA encoding it?
  - (A) homologous recombination
  - (B) antisense nucleic acid blocks
  - (C) antibody microinjection
  - (D) introduction of dominant inhibitory mutants
- During the exponential phase the maximum specific growth rate equals specific growth rate as
  - (A) concentration of the growth limiting substrate is much less than the monod constant
  - (B) concentration of growth limiting substrate is much greater than the monod constant
  - (C) specific growth rate increases exponentially
  - (D) concentration of the growth limiting substrate is equal to monod constant
- Specificity of transcription by RNA polymerase holoenzyme in E. coli is altered by changing the
  - (A) alpha subunit
  - (B) sigma subunit

- (C) beta subunit (D) beta prime subunit 27. Which of the following viruses replicates its DNA through an RNA intermediate? (A) Retrovirus (B) Influenza virus (C) Hepadnavirus (D) Reovirus 28. Flouride is an inhibitor of glycolysis. It inhibits the glycolytic enzyme (A) phosphofructokinase (B) glucokinase (C) enolase (D) lactate dehydrogenase 29. Which of the following is not true about helper T cells? (A) they function in cell mediated and humoral responses (B) they are activated by polysaccharide fragments (C) they bear surface CD4 molecules (D) they are subject to infection by HIV 30. World Intellectual Property Day 2014 was celebrated with the following theme (A) Celebrating innovation and promoting respect for intellectual property (B) Green Innovation (C) Creativity - The Next Generation (D) Movies - a Global Passion 31. Submission to GenBanK are made using (A) Banklt and Sequin (B) Banklt and Banklt (C) Sequin and Banklt (D) Entrez 32. All of the enzymes of the TCA cycle are located in the mitochondrial matrix except (A) citrate synthetase (B) α-ketoglutarate dehydrogenase
- 33. Which is the first immunoglobulin class to be produced in a primary response to an antigen?
  - (A) IgA

(D) fumarase

- (B) IgG
- (C) IgD
- (D) IgM
- 34. A mutation in a codon leads to the substitution of one amino acid with another. What is the name for this type of mutation?
  - (A) nonsense mutation

(C) succinate dehydrogenase

- (B) missense mutation
- (C) frameshift mutation
- (D) promoter mutation
- 35. LOD scores are used to predict
  - (A) crossover frequency
  - (B) gene sequence
  - (C) gene linkage
  - (D) the number of chromosomes in a genome
- 36. IR absorption takes place only if incident radiation
  - (A) causes a change in dipole moment
  - (B) brings about no change in the dipole movement
  - (C) causes no change in the spin
  - (D) causes no change in the bond angle
- An electron microscope has higher resolution as compared to the light microscope. This
  is because
  - (A) the wavelength of an electron is longer than the wavelength of light
  - (B) the wavelength of an electron is shorter than the wavelength of light
  - (C) the electron can penetrate the sample better
  - (D) they use different stains
- 38. Growing E. coli cells, when shifted from 37°C to 20°C, maintain their membrane fluidity by modifying the following parameters
  - (A) fatty acid chain length and sterol content
  - (B) fatty acid chain length and unsaturation
  - (C) fatty acid unsaturation and sterol content
  - (D) E.coli cannot maintain membrane fluidity
- 39. Euglenoids are unique among the algae because of their ability
  - (A) to synthesize proteins
  - (B) to practice photosynthesis
  - (C) to move
  - (D) to produce carbon dioxide
- 40. Which of the following is an autoimmune disease?
  - (A) Type 1 Diabetes mellitus
  - (B) Type 2 Diabetes mellitus
  - (C) Haemophilia A
  - (D) Sickle cell anemia
- 41. FlyBase is a
  - (A) biodiversity database
  - (B) model organism database
  - (C) literature database
  - (D) biomolecular database

- 42. The Cartagena Protocol on Biosafety was adopted in 2000 and entered into force on
  - (A) 29th August, 2000
  - (B) 12th September, 2001
  - (C) 21st August, 2002
  - (D) 11th September, 2003
- 43. For which of the following organisms is there no known animal reservoir?
  - (A) Bordetella pertussis
  - (B) Pasteurella multocida
  - (C) Brucella melitensis
  - (D) Francisella tularensis
- 44. High titres of antinuclear antibodies are indicative of
  - (A) parasitic infection
  - (B) fungal diseases
  - (C) autoimmune diseases
  - (D) bacterial diseases
- 45. Hydrogen cyanide binds to the active site of an enzyme that is part of the pathway that forms ATP in cells; in this way, it prevents the enzyme's activity. Hence, hydrogen cyanide can best be described as a
  - (A) coenzyme
  - (B) cofactor
  - (C) allosteric modulator
  - (D) competitive inhibitor
- 46. Strains of Neisseria gonorrhoeae, as usually isolated from the genito-urinary tract of humans suffering from gonorrhea, oxidize glucose, but not lactose, and are catalase and oxidase positive. Strains with such characteristics are considered to be
  - (A) auxotrophic
  - (B) prototrophic
  - (C) wild type
  - (D) mutant
- 47. CD40 ligand is seen only on
  - (A) macrophages
  - (B) cytotoxic T cells
  - (C) helper T cells
  - (D) dendritic cells
- 48. The Hardy-Weinberg Law describes
  - (A) genotype frequencies of a population when evolutionary forces are not acting
  - (B) how sexual reproduction would change the relative gene frequencies in a population
  - (C) how mutations occur and balance each other
  - (D) genotype frequencies of a population when evolutionary forces are acting

- 49. The main difference between active transport and facilitated diffusion is that
  - (A) in active transport the molecules move from areas of high concentration to areas of low concentration
  - (B) carrier protein is involved only in case of active transport
  - (C) in active transport energy is consumed to move molecules against a concentration gradient
  - (D) in active transport only water molecules are transported
- 50. Rho factor present in bacteria is involved in
  - (A) initiation of DNA synthesis
  - (B) initiation of transcription
  - (C) termination of transcription
  - (D) termination of DNA synthesis

Question Booklet Sr. No. 041047 Question Booklet Series : A

# Ph.D. Entrance Test - 2014

Subject: Environment Science

## Paper-I

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14	The instrument used for determ	imation of transparency of water is			
	A) Spectrophotometer     C) Conductivity bridge	B) Ekman dredge D) Sechhi disc			
2.	Which one of the following is	the correct food chain?			
	B) Daphnia -» Dragon Fly N C) Grass Snake -> Newt -» D	gon Fly Nymph -» Newt -» Grass Snake ymph ->Newt -» Algae -> Grass Snake Oragon Fly Nymph ->Daphnia -» Algae Oragon Fly Nymph -» Algae -> Daphnia			
3.	Which compound is usually capacity of calorimeter	used as a reference to check the heat			
	A) Benzoyl chloride     C) Benzene	Benzoic acid     Benzophenone			
4.	Which of the following statem	ent about energy flow is incorrect?			
	C) About 90% of the energy	vity is available to consumers. at one tropic level does not appear at the next he most economical way of acquiring the			
5.	Nernst Glower which is a sour	ce of IR radiation, made up of			
	A) Ga, Zr, Y C) Zr, Y, Er	B) Zr, Er, Rb D) Ba, Sc, Na			
6.	According to the Central Pollution Control Board, particles that are responsible for causing great harm to human health are of diameter:				
	A) 2.50 micrometers     C) 10.00 micrometers	B) 5.00 micrometers D) 7.5 micrometers			
7.	Ecologically sensitive and important areas, breeding and spawning grounds of marine life etc., are categorized in coastal Regulation Zone as:				
	A) CRZ – IV C) CRZ – III	B) CRZ - II D) CRZ - I			
8.	Which of the following organisms are used as components of bio fertilizers?				
	A) Blue green Algea only     B) Coliform bacteria and mu     C) N-Fixing bacteria only     D) Blue green algae and N-f				
9.	Organisms which require inge are called.	estion of one or several organic compounds			
	A) Bio concentration     C) Bioaccumulation	B) Biological Oxygen Demand D) Biomagnification			

10.	Replacement of exisiting termed as	ommunities by	any external	condition is		
	A) Primary succession     C) Autogenic succession		ondary succe ne of the abo			
Ü.	Agent orange is a?					
	A) Weedicide     C) Nematicide	10.0070 50000	ngicide identicide			
12.	Which of the following is n	ot a characteristic	feature of co	ommunity?		
	A) Populations of different     B) Complex interacting net     C) Different species interaction environment of matter     D) Groups of interacting in	work of plants, ar ting with one an and energy.	nimals and m other and wit	icrobes.		
13.	The bacteria responsible fo	deposition of ire	on oxide in w	ater pipes.		
	A) Klebsilla	B) Ga	llionela			
	C) Thermococcus	D) He	licobacter			
14.	Those planktons which ha known as.	e dimensions in	the range of	f 2-20 μm are		
	A) Micro plankton     C) Peri plankton		no plankton o plankton			
15.	The first national park established in India					
	A) Indra Gandhi National     C) Corbett National Park		ravatti Natio ziranga Natio			
16.	Ozone toxicity to plants is unsaturated hydrocarbons.	enerally due to i	nvolvement o	of which		
	A) Unsaturated fatty acid     C) Ethylene		thylene etylene			
17.	The least preferred technique in the disposal of municipal solid waste is					
	A) incineration     C) land filling	2.000,000,000,000,000	nposting cketting			
18.	The first CFC was synthesi	ed in:				
	A) 1892 B) 1	20	C) 1980	D) 1800		
19.	In which year, Bhopal Gas	Fragedy occurred	1.			
	<ul><li>A) December 5, 1984</li><li>C) January 3, 1985</li></ul>		cember 3, 19 vember 3, 19			
20.	Reaction of Pb <sup>2+</sup> with K <sub>2</sub> Ci A) White crystalline solid C) Yellow ppt	B) Wh	nite ppt			

21.	like Ca** and Mg **	ed soil particles attract positive ions ps the ions at soil level for ready			
	<ul> <li>A) Both (A) and (R) are true and</li> <li>B) Both (A) and (R) are true but (C) (A) is true but (R) is false</li> <li>D) (A) is false but (R) is true</li> </ul>	(R) is the correct explanation of (A) (R) is not the correct explanation of (A)			
22.	Why is it necessary to remove su	alphur from petroleum products?			
	A) To reduce the emission of sul     B) To increase efficiency of auto     C) To use sulphur removed from     D) To increase the life span of en	mobiles engines petroleum for commercial purposes			
23.	To conserve coral reefs the C following as Marine Park:	Govt, of India declared one of the			
	A. Gulf of Kutch     C) Gulf of Mannar	B) Lakshadweep islands     D) Andaman Islands			
24.	Which two of the following state standards are true? Answer choos	ments regarding ISO 14000 series of sing the code given below:			
	better environmental ma environmental performance. (ii) ISO M°C/u standards are reg	gulatory standards developed by ISO ket driven and therefore are based on interests in the market place.			
	A) (i) and (ii) C) (i) and (iii)	B) (ii) and (iii) D) (iii) and (iv)			
25.	A paddy field is an example of	1703 ANSTONE ALSO			
	A) Fresh water ecosystem     C) Auto ecosystem	B) Terrestrial ecosystem     D) Engineered ecosystem			
26.	Which of the following is the best	st volatizer of Selenium metal?			
	A) Lolium     C) Panicum	B) Brassica D) Populus			
27.	The placement of vertical or horizontal layers of brush/ vegetation into the soil for reclamation/ restoration is known as				
	A) Stacking     C) Trenching	B) Hydromulching D) Wattling			
28.	Residence time of water molecul	e in the ocean is:			
	A) 3.5 years C) 35 years	B) 3.5 million years D) 35000 years			

	diversity present on earth today?					
A) Microevolution B) Megaevol C) Biodiversity D) Speciation						
<ol> <li>Which one of the following statements regarding I</li> </ol>	El-NINO is NOT true?					
<ul> <li>A) It is an extension of equatorial current towards South America.</li> </ul>	the western coast of					
B) It is an occasional warm current leading to an in 10°C in subsurface water temperature.	ncrease of about					
<ul> <li>C) It develops as temporary replacement of usual of</li> <li>D) It causes an increase in plankton thriving in col</li> </ul>						
<ol> <li>Cost Benefit analysis is required in case of clearance of forest land;</li> </ol>	proposals involving					
A) Greater than 1Oha but less than 20ha     B) Greater than 20ha     C) Greater than 5ha but less than 1Oha     D) Greater than 40ha only						
<ol> <li>Spotted deer, Asiatic wild ass, Black buck are</li> </ol>						
A) Vulnerable species B) Endanger C) Threatened species D) Key species						
33. Which of the following group of plants is most resi radiations?	Which of the following group of plants is most resistance to ionizing radiations?					
A) Coniferous Forest B) Grass Lan C) Lichen and Mosses D) Mixed Fo						
<ol> <li>Which one of the following is the most productive</li> </ol>	Which one of the following is the most productive ecosystem?					
A) Oligotropic Lake B) High Sea C) Estuary D) Savanna						
35. Under anaerobic condition denitrifying Pseudomon	Under anaerobic condition denitrifying Pseudomonas changes.					
A) Nitrate to molecular nitrogen     B) Nitrate to     C) Nitrate to nitrite     D) Nitrate to						
36. Which bacterium found in soil is anaerobic?	Which bacterium found in soil is anaerobic?					
A) Azatobacter Sp  C) Bacillus Sp  D) Thiobacil						
37. Which of the following is not a major biome of Ind	dia?					
A) Tropical rain forest biomes     B) Tropical deciduous forest biomes     C) Temperature needle leaf forest biomes     D) Mountains and glaciers						

38.	Dachigum	National Park	is associated v	zith	
	A) Leopare     C) Rhinoce			Barking deer Hangul	*
39.	In an ecoto	one, the specie	s which become	e abundant are c	alled.
	<ul><li>A) Edge sp</li><li>C) Endemi</li></ul>			Keytone species Foster species	es
40.	IAIA stand	s for.			
	B) Internat C) Indian	ional Associat Association of	mpact Assessn tion of Impact Impact Assess ly of Impact A	Assessment ment	
41.	DDT molec	ule has:			
	B) Two tet C) Two tet	rahedral carbo rahedral carbo	on, two flat ben ons, two flat be ons, two benzer i, two flat benz	nzene rings ne rings	
42.	Which is no	ot true for MIC	22		
	A) Insolut B) B.P. in C) Lachry D) Colouri	the range of 4 matory	13-45°C		
43.	Outer electr	onic configur	ation of mercu	ry.	
	A) d <sup>10</sup> s <sup>2</sup> C) d <sup>9</sup> s <sup>1</sup>		B) D)	$d^{10} s^0  d^9 s^2$	
44.	Calculate th	e pH of 0.000	1 M HCl solut	ion.	
	A) 2	B) 4	C) 6	D) 8	
45.	Which type	s of radiations	are emitted fr	om mobile durin	g conversation?
	A) LR C) RFEMR			Microwave FM and AM	
46.	If an arranged series of n observation (n being an odd no), the median is the value of				
	A) (n+1)/ C) n+2	2		n/2 +1 n+1/2	
47.	If the mean	of Poisson dis	stribution is 4.	Find the standard	deviation?
	A) -l	B) -2	C) 2	D)	1

48.	by 3, the mean of the new set is				
	A) -4	B) -3	C) 2	D) 3	
49.	When an observation in the data is zero, then its geometric mean is?				
	A) Negative     C) Positive			Zero Cannot be calculated	
50.	Which one of the following is not a bioindicator of water pollution?				
	A) Blood-w     C) Sewage I			Sludge-worms Stone flies	

# Ph.D. Entrance Test - 2014

Subject: Geology

## Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Ans	swer Sheet Serial No.	Signature of the Condition	
		Signature of the Candidate	

Time: 60 minutes

Number of Questions: 50

Maximum Marks: 50

- Write your roll No, on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
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- If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
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# 

Q. 1:	Which of the following is characteristic for the rivers in youth stage ?				
	A) Meandering;	B) Pie	edmont;		
	C) River piracy;	10000	oughs.		
Q.2:	Which of the following term is N80°E and N80°W ?	s used a	a fold structure whose two limbs dips at 70° towards		
	A) Upright non-plunging fold;	B) Inc	lined non-plunging fold;		
	C) Upright plunging fold;	D) Inc	lined plunging fold.		
Q.3:	Which of the following is the r	atio of	Si : Al in cyclosilicates?		
	A) 1:1	B) 1:	3		
	C) 4:11	D) 2:			
Q.4:	Which one of the following contains the highest amount of silica?				
	A) Andesite;	B) Bas	salt:		
	C) Rhyolite;	III. TO THE WOOD	achyte.		
Q.5: Which one of the following denote plagioclases?		notes a	a texture of K-feldspars surrounded by a rim of		
	A) Ophitic;	B) Hia	ital:		
	C) Rapakivi;	2.00	crolitic		
Q.6:	Sediments produced by the enepisode are know as:	osion o	f mountain ranges subsequent to an orogenic		
	A) Pre-flysch;	B) Fly:	sch:		
	C) Post flysch;	2 1 1 2 2 1 1 1 1 2 2 2 3	plasse.		
Q.7:	Shales are characterised by				
	A) High porosity, low permeabi     C) High porosity, high permeab	00053	B) Low porosity, low permeability; D) Low porosity, high permeability.		

Q. 8:	Which one of the following orthoquartzites?	conditions is characteristic for the deposition of		
	A) Stable, shallow shelf;	B) Unstable, shallow shelf;		
	C) Stable, deep sea;	D) Unstable, deep sea.		
Q.9:	Which one of the following	suggests an increasing grade of metamorphism?		
	A) Slate-schist-phyllite;	B) Phyllite-schist-slate;		
	C) Schist-slate-phyllite;	D) Slate-phyllite-schist.		
Q. 10:	Which of the following term mixing of rocks with the pro-	ns is used to denote the process of complete melting and oduction of new magma?		
	A) Palinagenesis;	B) Anatexis;		
	C) Ultrametamorphism;	D) Autometamorphism.		
Q.11:	The study of trace fossils is	known as		
	A) Palaeoecology	B) Synecology		
	C) Ichthyology	D) Ichnology.		
Q. 12:	Which of the following mol	lluscs are entirely marine?		
	A) Cephalopods;	B) Gastropods;		
	C) Pelecypods;	D) None of the above.		
Q. 13:	Which of the following is the	dominant micro-organism of the abyssal oceanic regions		
	A) Diatoms;	B) Ostrocods;		
	C) Foraminifers:	D) Radiolarians.		
Q.14: \	Which one of the following u	nit contain well preserved stromatolites?		
	A) Suket Shales;	B) Bleaching Shales;		
	C) Fawn Limestone;	D) Kajrahat Limestone.		
Q.15;	What is the stratigraphic ap	ge of the Badhaura Formation?		
	A) Precambrian;	B) Cambrian;		
	C) Permian;	D) Jurassic.		
Q.16:	Which of the following gives the correct list of minerals in their decreasing order of consumption in the manufacture of cement?			
	A) Limestone, gypsum, coal			
	B) Limestone, coal, gypsum.			
	<ul> <li>C) Limestone, coal, gypsum,</li> <li>D) Limestone, gypsum, coal</li> </ul>			
	D) Littlestone, gypsum, coal	, it dir die dita badaite.		

Q. 17:	Which of the following term is used to denote the relicts of original minerals and textures in metamorphic rocks:					
	A) Palimpset;	B) Nematoblastic;				
	C) Lepidoblastic;	D) Decussate.				
Q.18:	8: Which of the following represents the nature of the Mohorovicic boundary?					
	A) P-T boundary	B) Compositional boundary				
	C) Phase-change boundary	D) Compositional and Phase-change boundary.				
Q.19:	Select the code from below that represents the age denoted by the index fossil <u>Discocyclina</u> ?					
	A) Palaeocene	B) Middle Eocene				
	C) Miocene	D) Pliocene				
Q. 20:	Select the code from below t	hat gives the character of the test of Nummulites.				
	A) Involute	B) Convolute				
	C) Evolute	D) None of the above.				
Q. 21:	Which of the following fossil group has phosphatic wall composition?					
	A) Foraminifera	B) Conodonta				
	C) Diatom	D) Ostracoda				
Q. <b>22</b> :	Select the code from below that gives the correct order of crystallisation of minerals according to the Bowen' reaction principle.					
	A) Mg-pyroxene-Hornblende-Biotite-Orthoclase					
	B) Olivine-Pyroxene-Orthoclase-Hornblende					
	C) Fe-pyroxene-Plagioclase-Mg-pyroxene-Quartz					
	D) Olivine-Orthoclase-Plagioc					
Q.23;	Select the code from below that gives the predominant factors that give rise to the development of the foliation in metamorphic rocks.					
	A) Stress & temperature	B) Lithostatic pressure & temperature				
	C) Temperature & fluid press	ure D) Fluid pressure & stress				
Q. 24:	Which of the following rocks shows pillow structure?					
	A) Komatite	B) Carbonatite				
	C) Rhyolite	D) Spilite				
Q. 25:	Select the code from below that is the characteristic for granulose structure?					
	A) Predominance of in-equidi	mensional minerals				
	B) Predominance of equidime	ensional minerals				
	C) Equal proportion of both in-equidimensional and equidimensional minerals  D) None of the above.					

Q.26:	The half life of ""U is	5:			
	A) Much greater than C) Almost similar to t		B) Almost similar to the age of moon D) Much greater than the age of moon		
Q. 27:	At convergent plate	boundaries:			
	A) Two plates are mo		B) One plate remains stationary		
	C) One plate moves a	and other is consu	med D) There is no movement		
Q. 28:	Plate movements ta	ke place at junctio	n of:		
	A) Sialic and somatic	layers	B) Lower crust and upper crust		
	B) Crust and the man	The state of the s	D) Lithosphere and asthenosphere		
Q.29:	Development of bad	land topography	akes place over:		
	A) Clay in sub-humid	region	B) Shale in arid region		
	C) Calcareous rock in	humid region	D) Calcareous rock in arid region		
Q.30:	Which one of the fol	lowing is the inco	rrect statement?		
Q. 31:	B) The ideal time for C) Scale of an aerial (D) Infra-red photogra	taking aerial photo photograph in not aphs can be taken	otograph for geological purpose is early spring ographs of sand dunes is early morning related to the flight height during night ws a straight road going up a uniform slope. The		
ų, 31.	distance between two consecutive kilometre stones, one km apart, as marked on the map would be:				
	A) 2cm	B) Greater tha	2cm		
	C) Less than 2cm		ster or less than 2cm depending upon the slope		
Q. 32:	Which of the follow	ing system has all	closed forms:		
	A) Tetragonal	B) Cub	ic		
93	C) Monoclinic	D) Ort	horhombic.		
Q. 33:	Choose the correct statement:  A) Calcite is harder than aragonite  B) Aragonite has higher specific gravity than calcite  C) Aragonite and calcite crystallize in the same crystal system  D) Aragonite and calcite have similar axial ratios.				
Q. 34:	Jasper is a form of s	ilica which is:			
	A) Crystalline	B) Am	orphous		
	C) Cryptocrystalline		ne of the above		
	c) cryptocrystalline	127 110			

## Q. 35: Match list I with list II and select the correct answer using the code given below the lists:

	List	0			List II
a)	Iron			1)	Sukinda
b)	Gyps	sum		2)	Mangampet
c)	Barit	e		3)	Goa
d)	Chro	mite		4)	Jamsar
Code					
	a	b	<u>c</u>	<u>d</u>	
A	4	2	3	1	
В	3	2	4	1	
C	3	4	2	1	
D	4	3	2	1	

## Q. 36: Rocks formed by metasomatism at igneous contacts is defined as

- A) Spotted schist
- B) Aureole

C) Skarns

D) Hornfels

## Q.37: Which one of the following represents a correct magmatic fractionation trend?

- A) Basalt-Dacite-Trachyte-Rhyolite
- B) Basalt-Andesite-Trachyte-Rhyolite
- C) Basalt-Dacite-Andesite-Trachyte
- D) Basalt-Andesite-Dacite-Trachyte

# Q.38: What is the correct sequence of appearance of minerals with increasing grade of Barrovian type metamorphism?

- A) Staurolite-Kyanite-Annite-Fibrolite
- B) Staurolite-Kyanite-Fibrolite-Annite
- C) Annite-Staurolite-Fibrolite-Kyanite
- D) Annite-Staurolite-Kyanite-Fibrolite

## Q.39: A crystal form having faces on only one side of a symmetry axis is called

- A) Pseudomorphic
- B) Hemihedral
- C) Hemimorphic
- D) Holohedral

#### Q. 40: Miller indices contains

- A) Neither fractions nor a common factor
- B) Both fraction and a common factor
- C) Either fraction or a common factor
- D) Irrational numbers

## Q.41: The incorrectly matched pair among the following is

- A) Actinolite: Double chain silicate
- B) Enstatite: Single chain silicate
- C) Serpentine: Island silicate
- D) Oligoclase: Framework silicate

Q.42:	The generalised chemical composition of mica is
	A) X <sub>2</sub> Y <sub>4-0</sub> Z <sub>8</sub> O <sub>20</sub> (OH,F) <sub>8</sub>
	B) X <sub>4.6</sub> Y <sub>2</sub> Z <sub>8</sub> O <sub>20</sub> (OH,F) <sub>6</sub>
	C) X <sub>2</sub> Y <sub>4.6</sub> Z <sub>8</sub> O <sub>22</sub> (OH,F) <sub>4</sub>
	D) X <sub>4-6</sub> Y <sub>2</sub> Z <sub>8</sub> O <sub>22</sub> (OH,F) <sub>4</sub>
Q.43:	Which one of the following pairs is NOT correctly matched?
	A) Rhyolite: Pillow structure
	B) Basalt: Columnar joints
	C) Gabbro: Ophitic texture
	D) Trachyte: Flow structure
Q.44:	The symmetry of the Tetrahedrite class is:
	A) 6 planes, 7 axes, no centre;
	B) 3 planes, 7 axes, a centre;
	C) 5 planes, 5 axes, a centre
	D) 9 planes, 13 axes, a centre
Q. 45:	Which of the following has highest compressive strength:
C(, 43;	Which of the following has highest compressive strength.
	A) Dolomite B) Quartzite
	C) Limestone D) Sandstone
Q.46:	Which of the following represents a glassy modification of an acidic lava?
	A) Obsedian B) Tektite
	C) Trachyte D) Limburgite
Q.47:	Which of the following binary systems exhibits the phenomenon of incongruent melting?
	A) Diopside-Leucite B) Albite-Anorthite
	C) Forsterite-Fayalite D)Forsterite-Silica
	Destaração houndary?
Q.48:	Which of the following demarcates the Archaean-Proterozoic boundary?
	A) 1900Ma B) 2500 Ma
	C) 3000 Ma D) 300 Ma
Q.49:	Which of the following regions is charactersized by shallow earthquakes?
	A) Hot spots B) Mid-oceanic ridges
	C) Island arcs D) Subduction zone
Q. 50:	Which of the following is the correct order of palaeomagnetic events?
	A) Brunhes normal-Gilbert reversed-Gauss normal-Matuyama reversed
	B) Gauss normal-Matuyama reversed-Brunhes normal-Gilbert reversed
	C) Brunhes normal-Matuyama reversed-Gauss normal-Gilbert reversed
	D) Gauss normal-Gilbert reversed-Brunhes normal-Matuyama reversed

Question Booklet Series : A Question Booklet Sr. No. 043102

# Ph.D. Entrance Test - 2014

Subject: Physics

# Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Answe	er Sheet Serial No	b. [] []	
		Signature of the Cana	lidate
Time: 60 minu	ites Number	of Questions: 50	Maximum Marks: 50

- Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
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1.	Whic	th of the fo	Howin	g is untruc	e for a mag	netic ma	terial		
	B) E C) E D) F	very mater very mater ven if all to erromagne xchange in	rial has he spir tic cor	s a parama is are pair itribution	gnetic con ed and full	tribution , diamag	netie e		tion remains e of
2:		e are two o states res			rolled. Ti	ne total	numbe	r of m	icrostates and
	A) C)	11 and 3 36 and			B) D)	36 and 6 and	1172		
3:	Expr	ession for (	Gibbs	free energy	y is				
	A) C)	U+TS+F	v		B) D)	U-TS U-TS			
4.	Then	mal energie	es are o	of the orde	er of				
	$\Lambda)$	.03eV	B)	leV	C)	IMeV		D)	3eV
5.		ich energy per of close			A SECTION ASSESSMENT OF	f solid c	sontain	ing 100	00 atoms, the
	$\Lambda)$	50	B)	$10^{23}$	C)	5000		D)	1000
6.	Rein	xation time	for co	nduction o	electrons o	n metal i	s of the	e order	of
	A) C)	10 <sup>-3</sup> s 1s			В) D) п	10 <sup>-9</sup> s nuch sma		an nano	second
7.		and t <sub>2</sub> are t of these is							the combined
	A) B) C) D)	τ as aver τ as geor τ -  τ <sub>1</sub> = τ 1/ τ=1/	metric	mean of the	.e. (τ <sub>1</sub> + τ <sub>2</sub> ) he two, i.e.	$(\tau_1 \tau_2)^{1/2}$			
8.	Volu	me of a pri	mitive	cell of a f	occ structu	re with la	attice c	onstant	a is
	A)		В)			$a^{3}/3$		D)	2a <sup>3</sup>
9.	Whic	ch of the fo	llowin	g is untruc	ofor a mag	netic ma	terial		
	A) B) C) D)	Every m	aterial all the gnetic	has a pan spins are p contribut		contribu full, diar	tion nagnet		ribution remains inite value of
10.	If he	at capacity	of me	tals is C <sub>v</sub> ,	then C <sub>v</sub> /T	at low te	mperat	ures	
	A) C)		stant e	qualing 38		B) D)	varie	s direct es as T <sup>3</sup>	ly as T

11.	What is the degeneracy of 'G5 atomic	310401
	(A) 15	(B) 11
	(C) 9	(D) 9
12.	Rotational constant, B, of N2 can be d	etermined experimentally by
	(A) Rayleigh scattering	(B) Raman scattering
	(C) UV-visible absorption	(D) Far infrared absorption
13.	If the ionization energy of H atom is electron from the first excited state of	13.6 eV, the energy required to remove H atom is
	(A) 5.13 eV	(B) 1.51 eV
	(C) 13.6 eV	(D) 3.4 eV
14.	tion, $2s^2$ , where 1 and 2 represent first	ne spatial wavefunction of electronic config t and second electrons, respectively, then eitten in terms of up and down spin functi
	(A) $\chi^{+}(1)\chi^{+}(2)$	(B) $\chi^{-}(1)\chi^{-}(2)$
	(C) $\frac{1}{\sqrt{2}} \left[ \chi^{+}(1)\chi^{-}(2) - \chi^{-}(1)\chi^{+}(2) \right]$	(D) $\frac{1}{\sqrt{2}} \left[ \chi^{+}(1)\chi^{-}(2) - \chi^{+}(1)\chi^{+}(2) \right]$
15_	In two valance electrons systems, the	spectroscopic terms calculated from
	(A) LS coupling and jj coupling will b	oe equal.
	(B) $LS$ coupling will be more than $jj$	coupling.
	(C) LS coupling will be less than jj co	oupling.
	(D) one coupling will be more or less t	o the other coupling, depending on the
	given electronic configuration and	atomic system,
16.	A transformer is used for	
	(A) Frequency modulation	(B) Impedance matching
	(C) Rectification of sinusoidal signal	(D) Analog-to-digital conversion
17.	A 400 W carrier wave is modulated to wave will be	depth of 75 %. The power of the modu
	(A) 50 W	(B) 475 W
	(C) 300 W	(D) 512 W
18.	A transistor acts like a diode and a	
	(A) Voltage source	(B) Current source
	(C) Resistance	(D) Power supply

10.	THE ROSE, TAIL	my with the short	est propagation	delay is		
	(A) CMOS		(B) Bio	CMOS		
	(C) ECL		(D) 743	(D) 74SXX		
20.	The digital lo	gic expression $\overline{(X)}$	+Y)+Z, is equ	nivalent to	_	
	(A) (X+Y)Z		(B) (X			
	(C) $(X + Y)\overline{Z}$	7	(D) (X	$+\overline{Y})\overline{Z}$		
21.	probability an	that wave function plitude and $ \Psi(\vec{r}) $ on measurement is	)  <sup>2</sup> is probabili			
	A ) Bohr	B) S N Bose	C) Heisenbe	erg D)	Dirac	
22.	The value of th	ne integral $\int_0^3 (2 x^2)$	$+7x+3)\delta(x$	-1)dx is		
	A) 0	B) 3	C) 1	D)	12	
	$ \Psi  > = \frac{1}{\sqrt{2}}  1 $	ogen atom is in state $S   0 > -\frac{t}{3\sqrt{2}}   2   P$ t   m > represents r	$1 > + \frac{1}{3\sqrt{2}}  2 P -$	$1 > + \frac{\sqrt{7}}{3\sqrt{2}}$		
	A) -1	B) 0	C) 1/2	D	1	
24.	In case of way $A ) = \frac{v}{r^2}$	e function $\Psi(\vec{r}) =$ B) $\frac{v}{r}$	$\frac{\sigma^{ikr}}{r}$ , the probab	ility current de	ensity is	
25.	The degree of	degeneracy for thre	ee dimensional iso	tropic harmon	ic oscillator is	
	A) n <sup>2</sup> C) (2n+1	)(2n +2) /2		2 n + 1 +1)(n+2)/2		
26.	Which of the f	ollowing elementar	ry particle is a lept	on		
	A) photon	B) muon	C) pion		D) neutron	
27.	Which of the f	following statement	regarding neutrin	o is wrong?		
	A) neutrino h		B)	neutrino has a		
28.	Which of the f	following is allowed	d?			
	A) $\tau^- \rightarrow e$ C) $\tau^- \rightarrow e$	+ γ - + μ <sup>-</sup> + μ <sup>+</sup>	B) D)	$\begin{array}{ccc} \tau^- \rightarrow \mu^- \\ \tau^- \rightarrow \mu^- \end{array}$	$+ \gamma$ $+ \bar{\nu}_{\mu} + \nu_{\tau}$	
29.	Quark content	of $\pi^+$ is				
	<ul> <li>A) u d</li> </ul>	B) uū	C)	du	D) d d	
30.	antiproton pai	proton (rest mass r in addition to the the incident proton	he original partic	eles. What is t	ating proton- he minimum	
	A) 2 M c <sup>2</sup>	B) 4 M c		22	D) 7 M c <sup>2</sup>	

31.	For the complex function f	$(Z) = \frac{Z}{(2Z+1)(5)}$	-Z)'	what is the resid	due at $Z = -\frac{1}{2}$ ?
		1			D) 1/24 -
32	Which of the following proj	perties is not sal	tisfied b	y a group "G"	,
	Closure     Existence of Inverse			ssociativity on existence of	Inverse
33.	What is the value of $x\delta(x)$	?			
	A) 0 B)	1	C)	1 2	D) ∞
34.	The value of $\Gamma(Z)\Gamma(-Z)$ is				
	A) $\frac{\pi}{Sin\pi Z}$ , $Z \neq integer$		B)	$\frac{\pi}{Sin\pi Z}$ , Z	≠ integer
	C) $\frac{\pi}{ZSin\pi Z}$ . $Z \neq integer$		D)	$\frac{\pi}{ZSin\pi Z}$	Z≠ integer
35.	In which domain(s) of the c	omplex plane is	f(z)	x  - i y  an an	alytic function?
	A) In all the four quadrants     B) Only in the second and I     C) Only in the second quad     D) Only in the fourth quadrants	ourth quadrants rants			
36.	Which one of the following	nucleus is a ha	lo nucle	eus?	
	A) <sup>11</sup> Li B)	6Li	C)	7Li	D) 12C
37.	What is the wavelength of	thermal (0.025e	V) neut	rons?	
	A) 1.81×10 <sup>-10</sup> (m)		B)	$1.81 \times 10^{-11} (m)$	
	C) $1.81 \times 10^{-12} (m)$		D)	$1.81 \times 10^{-14} (m)$	
38.	What is the expected groun	d state spin of 3	P		
	A) 3 B)	5 2	C)	7 2	D) $\frac{1}{2}$
39.	Normally fusion reaction () heavy nuclei, other than the used for the super-heavy p	is method which	s used f h of the	or the production following reac	on of super- tion can be
	Alpha induced reac     Deuteron induced r	tion	B) D)	Transfer rea Proton induc	
40.	What is the energy of the e when it de-excites to the gr	xcited state of 1	O, wh	ich emits a 612	8.63 KeV γ ray
	A) 6128.63 KeV		B)	6132.45 Ke	V

41.			by a force F= moves from co					s on a
	A)	3 J	B)	-9/2 J	C)	1/2 J	D)	zero
42.	cons	erved in	motion in the ed along the z-	field of an				
	A) B) C) D)	x- and x- and	nponent of ang nponent of line d y-component d y-component enturn	ar momentu s of linear m	m and z-co	only		
43.	Any	rigid bo	dy can acquire	equilibrium	if it is act	ed upon by		
	A) C)		gle force coplanar forc	es	B) D)		linear fore ber of fore	
44.	Kepl	er's seco	and law of plan	netary motion	n is a cons	equence of o	onservatio	on of
	A) A	rea	B) Energy	C) Mome	ntum	D) Angul	ar moment	tum
45.	Whi	ch of the	following is to	rue about pos	sition vect	or and linear	momentu	m?
	A) B) C) D)	Positi Positi Positi	on vector and on vector and on vector is a on vector is an	linear mome polar vector axial vector	ntum are l and linear and linea	both axial ve momentum r momentum	ctors. is an axial is a polar	vector.
46.		lepend e	ons of transfo applicitly on tir					
	A) B) C) D)	Hami Hami	Itonian is the t Itonian is the t Itonian is not r Itonian is neith	otal energy b recessarily th	out not nec	essarily a co ergy but a co	nstant of r enstant of r	notion
47.	Whic	ch of the	following vec	tor operation	is are corn	ect?		
	A) B) C) D)	Curl (	of a curl and di of a grad and g of a grad and d of a curl and g	rad of div ar iv of a curl a	e always z ire always	zero zero		
48.			e following st electric dipol		not true f	or the electr	omagnetic	wave
	A)		r radiated is d maximum dip			the square	of the mag	gnitude
	13)		r radiated is			l to the fe	ourth pov	ver of
	C)		ency. num radiation	is emitted o	rthogonal	to the dipole	ĝ.	

Power radiated is inversely proportional to radial distance.

D)

19.	The o	electric field produced by an infil	nite line of u	nitorin charge density xis
	A)	$\lambda/2\pi\epsilon_0 r$	B)	$\lambda/4\pi\epsilon_0 r$
	1,000	$\lambda/\varepsilon_0 r$	D)	00
50.	Whe abilit	n a magnetic material is subjectly to get magnetised is described	ted to an ex in terms of	ternal magnetising field, its
	A)	Magnetic permeability	B)	Magnetic susceptibility
	C)	Magnetic viscosity	D)	Magnetic resonance

X - X - X

Question Booklet Series : A Question Booklet Sr. No. 044027

# Ph.D. Entrance Test – 2014

# Subject: Statistics

## Paper-I

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	In Figure	In Words	
O.M.R. Answe	er Sheet Serial No		
		Signature of the Cana	lidate
Time: 60 minu	tes Number	of Ouestions: 50	Maximum Marks: 50

- 1. Write your roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided
- 2. Enter the Code No. of Question Booklet on the OMR answer Sheet. Darken the corresponding bubbles with Black Ball Point/Black Gel Pen.
- Do not make any identification mark on the Answer Sheet or Question Booklet.
- 4. Please check that this Question Booklet contains 50 questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of test.
- 5. Each question has four alternative answer (A, B, C, D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball Point/Black Gel Pen. There shall be no negative marking for wrong answers.
- 6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
- 7. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
- 8. If you want to change an already marked answer, erase the shade in the darkened bubble completely.
- 9. For rough work only the blank sheet at the end of the Question Booklet be used.
- 10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 11. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on
- 12. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/ noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from
- 13. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 14. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculators is not allowed.

## PAPER-I (OBJECTIVE TYPE/MULTIPLE CHOICE)

- A national achievement test is administered annually to 3rd graders. The test has a mean score of 100 and a standard deviation of 15. If Jane's z-score is 1.20, what was her score on the test?
  - (A) 82
  - (B) 88
  - (C) 118
  - (D) 112
- Let If X<sub>1</sub>,..., X<sub>n</sub> are independent random variables, X<sub>i</sub> having an exponential distribution with parameter θ<sub>1</sub>, i= 1, ....., n, then z = min(X<sub>1</sub>,..., X<sub>n</sub>) has:
  - (A) Poisson distribution with parameter  $\sum_{i=1}^{n} \theta_i$
  - (B) Exponential distribution with parameter  $\sum_{i=1}^{n} \theta_i$
  - (C) Poisson distribution with parameter  $\sum_{i=1}^{n} \frac{\theta_i}{2}$
  - (D) Exponential distribution with parameter  $\sum_{i=1}^{n} \frac{\theta_i}{2}$
- If the regression of y on x is perfectly linear then the variance of regression estimate is:
  - (A) zero
  - (B) one
  - (C) Between zero and one
  - (D) Greater than one
- 4. Two unbiased dice are thrown. Find the conditional probability that two fives occur if it is known that the total is divisible by 5?
  - $(A)\frac{7}{36}$
  - (B)  $\frac{7}{12}$
  - $(C)\frac{1}{36}$
  - $(D)^{\frac{1}{7}}$
- 5. If  $\underline{X}$  is  $N_p(\underline{\mu}, \Sigma)$  and  $\Sigma$  is non-singular, then  $(\underline{X} \underline{\mu})' \Sigma^{-1} (\underline{X} \underline{\mu})$  is distributed as:
  - $(A)\chi_p^2$
  - (B)  $\chi^{2}_{2p}$
  - (C) Wishart W (∑.p)
  - (D) Hotelling T2 with p degrees of freedom

- 6. The Graph of a negative binomial distribution is:
  - (A) Positively skewed and mesokurtic
  - (B) Positively skewed and leptokurtic
  - (C) Negatively skewed and leptokurtic
  - (D) Negatively skewed and platykurtic.
- 7. Suppose that among six bolts two are shorter than a specified length. If two bolts are chosen at random, what is the probability that the two short bolts are picked?
  - $(A)^{\frac{1}{6}}$
  - (B)  $\frac{1}{15}$
  - $(C)\frac{2}{15}$
  - $(D)^{\frac{1}{3}}$
- 8. If T is an unbiased and consistent estimator of  $\theta$  then for  $\theta^2$ ,  $T^2$  is
  - (A) Unbiased and consistent
  - (B) Unbiased and inconsistent
  - (C) Biased and inconsistent
  - (D) Biased and consistent
- In a sign test, if r is the number of plus signs and s is the number of minus signs, then the distribution of r given r + s is:
  - (A) Binomial
  - (B) Poisson
  - (C) Normal
  - (D) Negative binomial
- 10. Let  $\hat{\theta}$  be an estimate of  $\theta$  based on a sample of size n.  $\lim_{n\to\infty} E(\hat{\theta}) = \theta$  and if  $\lim_{n\to\infty} V(\hat{\theta}) = 0$ , then  $\hat{\theta}$  is:
  - (A) M.L.E. of  $\theta$
  - (B) Unbiased estimate of  $\theta$
  - (C) Best linear unbiased estimate of  $\theta$
  - (D) Consistent estimate of  $\theta$
- 11. Let  $X_1, X_2$  be independent random variables each having geometric distribution  $q^x p, x = 0,1,2,...$  the conditional distribution of  $X_1$  given  $X_1 + X_2$  is
  - (A) Geometric
  - (B) Exponential
  - (C) Rectangular
  - (D) Binomial

- 12. The maximum likelihood estimates are always
  - (A) Unbiased and consistent
  - (B) Unbiased and inconsistent
  - (C) Consistent and invariant
  - (D) Invariant and unbiased
- If X and Y are independent gamma variates with parameters I and m respectively then the distribution of x/x+y follows
  - (A)  $\chi^2$  with (l+m) d.f.
  - $(B)\beta_1(l,m)$
  - $(C)\beta_2(l,m)$
  - (D)F(l, m)
- 14. For any n events  $A_1, A_2, \dots A_n$ , the inequality  $P(\bigcup_{i=1}^n A_i) \leq \sum_{i=1}^n P(A_i)$  is known as:
  - (A) Bonferroni inequality
  - (B) Boole's inequality
  - (C) Blackwell inequality
  - (D) Birnbaum inequality
- 15. If X = (X<sub>1</sub>,X<sub>2</sub>)' and the marginal distributions of X<sub>1</sub> and X<sub>2</sub> are both univariate normal, then X has a bivariate normal distribution iff
  - (A) X<sub>1</sub> + X<sub>2</sub> is univariate normal
  - (B) X1 X2 is univariate normal
  - (C) 1<sub>1</sub>X<sub>1</sub> + 1<sub>2</sub>X<sub>2</sub> is univariate normal for all real 1<sub>1</sub> and 1<sub>2</sub>
  - (D) 11X1 12X2 is univariate normal for all real 11 and 12
- 16. Let  $\underline{X} N(\underline{\mu}\Sigma)$  Then the Characteristic Function of  $Z = D \underline{X}$  for every real vector  $\underline{t}$  is:
  - (A)  $e^{i\underline{t}'(D\underline{\mu}) \frac{1}{2}\underline{t}'D\underline{t}}$
  - (B)  $e^{i\underline{t}'(D\mu)-\frac{1}{2}\underline{t}'(D\Sigma D')\underline{t}}$
  - (C)  $e^{i\underline{t}} \underline{\mu} \underline{t} \underline{\Sigma} \underline{t}$
  - (D) $e^{i\underline{t}'\underline{\mu}-\frac{1}{2}\underline{t}'\underline{D}\underline{t}}$
- 17. Let  $C_p$  denote the process capability Ratio  $C_p = \frac{USL LSL}{6\sigma}$ . Then  $C_p \ge 1$  it implies
  - (A) The process uses up more than 100% of the tolerance band.
  - (B) The process uses much less than 100% of the tolerance band
  - (C) The process uses up all the tolerance band
  - (D) The process uses more than 200% of the tolerance band.

where L = width of the central limits &  $0 \le \lambda \le 1$ 

- 18. Let  $X_1, \dots, X_n$   $(N \ge p)$  be independently distributed, each according to  $N(\mu, \sum_i)$  Then the density of  $A = \sum_{\alpha=0}^{N} (\underline{X}_{d} - \overline{\underline{X}}) (\underline{X}_{d} - \overline{\underline{X}})$  is
  - (A) F(n,N)
  - $N\left(\underline{\mu}, \frac{\sum_{n}}{n}\right)$
  - (C) Wishart  $W(\sum_{i} n_i)$
  - (D)  $x^2(n)$  where n = N-1.....
- 19. What is one of the distinctions between a population parameter and a sample statistic?
  - (A) A population parameter is only based on conceptual measurements, but a sample statistic is based on a combination of real and conceptual measurements.
  - (B) A sample statistic changes each time you try to measure it, but a population parameter remains fixed.
  - (C) A population parameter changes each time you try to measure it, but a sample statistic remains fixed across samples.
  - (D) The true value of a sample statistic can never be known but the true value of a population parameter can be known
- 20. Identify the correct answer
  - (A) The type-A OC always lie below the type -B OC curve
  - (B) The Type-A OC curve will always lie above the type -B OC curve.
  - (C) The type -A OC curve will always cross the type -B OC curve from above
  - (D) The Type-A OCcurve will always cross the type-B OC curve from below
- 21. The necessary condition for the BIBD with parameters (v, r, b, k) with v even to be SBIBD is that
  - (A) (r-k) must be a perfect square
  - (B) (r -λ) must be a perfect square
  - (C) (k-λ) must be a perfect square
  - (D) (N-λ) must be a perfect square

where N is the incidence matrix of BIBD and λ is the inner product of any two rows of N.

- 22. Two contrasts of K treatment means  $t_i \mathbf{i} = 1 \mathbf{k}_i$ ,  $\mathbf{viz} \sum_{i=1}^{K} c_i t_i$ ,  $\sum_{i=1}^{K} c_i = 0$  &  $\sum_{i=1}^{K} d_i t_i$ ,  $\sum_{i=1}^{K} d_i = 0$  are said to be orthogonal if
  - (A)  $\sum_{i=1}^{K} \frac{c_i}{d_i} = 0$
  - (B)  $\sum_{j=1}^{K} \left(c_{j} d_{j}\right) = 0$
  - (C)  $\sum_{i}^{K} c_{i}d_{i} = 0$
  - (D)  $\sum_{j=1}^{K} (c_j + d_j) = 0$
- 23. In case of 23 factorial experimentwith one replicate, the treatment

Block-1	Block-2
1	(a)
(ab)	(b)
(ac)	(c)
(bc)	(abc)

- (A) ABC is confounded
- (B) AC is confounded
- (C) AB is confounded
- (D) BC is confounded
- 24. Let S be a pxp sample covariance matrix with n degrees of freedom, Then  $\sqrt{n} \left( \frac{|S|}{|\Sigma|} 1 \right)$  is

asymptotically normally distributed with

- (A) mean I and variance 2 p
- (B) mean 0 and variance 2 p
- (C) mean I and variance  $\sqrt{2p}$
- (D) mean I and variance  $\sqrt{2p}$

25. Suppose you have the following information about the cdf of a random variable X, which takes one of 4 possible values:

Value of X 1 2 3 4 Cdf 0.25 0.4 0.8 1

Which of the following is true?

- (A) Pr(X = 2) = 0.4
- (B) E(X) = 2.5
- (C) Pr(X=4) = 0.2
- (D) all of the above

26. If  $r_{12} = 0.80$ ,  $r_{13} = -0.40$  and  $r_{23} = -0.56$ , where  $r_{ij}$  denotes the correlation coefficient between X<sub>i</sub> and X<sub>j</sub> for i, j = 1, 2, 3. Then  $r_{12,3}$ the partial correlation coefficient is given by

- (A) 0.96
- (B) 0.42
- (C) 0.65
- (D) 0.75

27. Let y be the variable of interest and x be an ancillary variable, then the ratio estimator  $\bar{y}_R$  will be superior than the ordinary estimator  $\bar{y}$  if

$$(A) \rho > \frac{1}{2 c_x}$$

(B) 
$$\rho < \frac{1}{2 c_x}$$

(C) 
$$\rho > \frac{c_s}{2 c_s}$$

(D) 
$$\rho < \frac{c_x}{2 - c_y}$$

where ρ : correlation between x and y and c<sub>x</sub> & c<sub>y</sub> : coff. of variation for x and y resp.

- 28. In sampling nM units from the population of NM units by simple random sampling, the variance of the sample mean is given by  $V(\bar{Y}_{SPS})$  as
  - (A)  $\left(\frac{1}{nM} \frac{1}{NM}\right)s^2$
  - (B)  $\left(\frac{1}{nM} + \frac{1}{NM}\right)s^2$
  - (C)  $\frac{1}{nMs^2}$
  - (D)  $\frac{s^{\pm}}{nM}$

where  $s^2 = \frac{1}{NM-1} \sum_{i=1}^{N} \sum_{j=1}^{M} (Y_n - \overline{Y})^2$ 

- 29. In case of  $\overline{X}$  Chart. The average run length ARL is given by
  - (A) β (1 β)
  - (B)  $\frac{1}{(1-\beta)^2}$
  - (C) β(1-β)<sup>2</sup>
  - (D)  $\frac{1}{1-\beta}$

where  $\beta$  is the probability of not detecting a shift in the mean in first subsequent sample.

- 30. In case of linear programming, if either the primal or the dual problem has an unbounded objective function value, then the other problem has
  - (A) unbounded solution
  - (B) no feasible solution
  - (C) multiple solutions
  - (D) unique feasible solution
- 31. If the covariance between two random variables X and Y is zero then
  - (A) X and Y are independent
  - (B) Knowing the value of X provides no information about the value of Y
  - (C) E(X) = E(Y) = 0
  - (D) none of the above

- 32. Let X be a binomial variate with mean 2 and variance 1. Then the probability that X takes valueatleast 1 is

  - (D) 15
- 33. Suppose [L(X), U(X)] is a 95% confidence interval for a population mean. Which of the following is true?
  - (A)  $P[L(X) \le \bar{X} \le U(X)] = 0.95$
  - (B)  $P[L(X) \le \bar{X} \le U(X)] = 0.05$
  - (C)  $P[L(X) \le \mu \le U(X)] = 0.95$
  - (D)  $P[L(X) \le \mu \le U(X)] = 0.05$
- 34. Let  $X_1, ..., X_n$  (N > p) be independently distributed, each according to  $N(\mu, \sum)$  Then

the density of 
$$A = \sum_{\alpha=0}^{N} (\underline{X}_{d} - \underline{X}) (\underline{X}_{d} - \underline{X})^{\alpha}$$
 is

(A)  $F(n,N)$ 

- (B)  $N\left(\underline{\mu}, \frac{\sum_{n} 1}{n}\right)$
- (C) Wishart  $W(\sum, n_i)$
- (D)  $x^2(n)$  where n = N-1.....
- 35. In interpreting a boxplot of a data set we note that the median is to the left of the center of the box and the right line is longer than the left line. We can conclude that
  - (A) the data is symmetric Y
  - (B) skewness or symmetry cannot be determined by a box plot
  - (C) the data is skewed right
  - (D) the data is skewed left
- 36. A random sample of 1000 people was taken. Four hundred fifty of the people in the sample favored Candidate A. The 95% confidence interval for the true proportion of people who favors Candidate A is
  - (A) 0.419 to 0.481
  - (B) . 0.40 to 0.50
  - (C) 0.45 to 0.55
  - (D) 1.645 to 1.96

- 37. A simple random sample of 100 observations was taken from a large population. The sample mean and the standard deviation were determined to be 80 and 12 respectively. The standard error of the mean is
  - (A) 1.20
  - (B) 0.12
  - (C) 8.00
  - (D) 0.80
- 38. In a  $\chi^2$  test of independence, with m rows and n columns in the contingency table, the number of degrees of freedom associated with the test statistic is
  - (A) mn+1
  - (B) mn-I
  - (C) mn-m-n+1
  - (D) mn-m-n-1
- 39. In the past, the mean running time for a certain type of radio battery has been 9.6 hours. The manufacturer has introduced a change in the production method and wants to perform a hypothesis test to determine whether the mean running time has changed as a result. The null (H<sub>0</sub>) and alternative (H<sub>1</sub>) hypotheses are
  - $H_0$ :  $\mu \ge 9.6$  hours;  $H_1$ :  $\mu = 9.6$  hours
  - $H_0$ :  $\mu > 9.6$  hours;  $H_1$ :  $\mu > 9.6$  hours (B)
  - (C):  $H_0$ :  $\mu \neq 9.6$  hours:  $H_1$ :  $\mu = 9.6$  hours
  - $H_0$ :  $\mu = 9.6$  hours;  $H_1$ :  $\mu > 9.6$  hours (D)
- 40. Which one of these statistics is unaffected by outliers?
  - (A) Interquartile Range
  - (B) Mean
  - (C) Range
  - (D) Standard deviation
- 41. Let r be the observed correlation coefficient in a sample of n pairs of observations from a bivariate normal population, then to test the null hypothesis, that the population correlation coefficient is zero, where d.f= degrees of freedom, the test statistic to be used is:

  - (A)  $t = \frac{r}{\sqrt{1-r^2}} \sqrt{n-1} \sim t_{(n-1)} d \cdot f$ (B)  $t = \frac{r}{\sqrt{1-r^2}} \sqrt{n-2} \sim t_{(n-2)} d \cdot f$ (C)  $t = \frac{r}{\sqrt{n-2}} \sqrt{1-r^2} \sim t_{(n-2)} d \cdot f$ (D)  $t = \frac{r}{\sqrt{1-r}} \sqrt{n-2} \sim t_{(n-2)} d \cdot f$
- 42. In Multivariate analysis, first canonical variates is a linear combination of variates
  - (A) Minimum variance
  - (B) Maximum variance
  - (C) Minimum correlation
  - (D) Maximum correlation

- 43. Let  $(x_i, y_i)$  be the n pair of values of x and y, then how many lines can pass through the plot of  $(x_i, y_i)$ 's?
  - (A) One line
  - (B) Two lines
  - (C) n lines
  - (D) More than n lines
- 44. If T is an unbiased and consistent estimator of  $\theta$  then for  $\theta^2$ ,  $T^2$  is
  - (A) Unbiased and consistent
  - (B) Unbiased and inconsistent
  - (C) Biased and inconsistent
  - (D) Biased and consistent
- 45. If in a block the number of experimental units or plots is smaller than the number of treatments, then the design so constituted is called
  - (A) CRD
  - (B) Orthogonal Design
  - (C) Connected Design
  - (D) Incomplete Block Design
- 46. The Sequence  $\{X_n\}$  converges almost surely to a r.v. X if
  - (A)  $P\{\lim_{n\to\infty} X_n = X\} = 1$
  - (B)  $P\{\lim_{n\to\infty} X_n = X\} = 0$
  - (C)  $\lim_{n\to\infty} P\{|X_n X| > \epsilon\} = 0$  for every  $\epsilon > 0$
  - (D)  $\lim_{n\to\infty} P\{|X_n X| < \epsilon\} = 0$  for every  $\epsilon > 0$
- 47. In case of CRD, where v treatments are applied to n experimental units such that it unit is replicated  $r_i$  times, the variance of treatment contrasts  $\underline{l}'\underline{t}$  is given by:
  - (A)  $\sigma^2 \left( \frac{1}{r_i} \frac{1}{r_i} \right)$
  - (B)  $\sigma^2 \left( \frac{1}{r_i^2} \frac{1}{r_i^2} \right)$
  - (C)  $\sigma^2 \left( \frac{1}{r_i} + \frac{1}{r_j} 2r_i r_j \right)$
  - (D)  $\sigma^2 \left( \frac{1}{r_1} + \frac{1}{r_1} \right)$
- 48. The diameter, say X, of an electric cable, is assumed to be a continuous r.v. with p.d.f.: f(x) =6x(1-x); 0 < x < 1 then  $P\left(X \le \frac{1}{2} | \frac{1}{3} \le X \le \frac{2}{3}\right)$  is

  - (A)  $\frac{1}{26}$ (B)  $\frac{11}{26}$ (C)  $\frac{15}{26}$ (D)  $\frac{13}{27}$

- 49. If  $X \sim B(n, p)$ , then  $E\left(\frac{x}{n} p\right)^2$  is
  - (A)  $\frac{q}{n}$
  - (B) pq

  - (C) npq (D) pq/n
- 50. Given a system of m simultaneous linear equations in n unknown ( $m \le n$ ). The number of basic variables will be
  - (A) m
  - (B) n
  - (C) n-m
  - (D) n+m