CET (PG)-2015

Sr. No. :

258087

Question Booklet Series : A

Ans	wer Sheet.	Slip before filling your Roll Number on the T	
Roll No.	In Figures	In Words	

Signature of the Candidate :

Subject: Masters in Remote Sensing & GIS

Time: 90 minutes Number of Questions: 75

Maximum Marks: 75

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO

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 Subject and Series Code 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. 3

To open the Question Booklet remove the paper seal gently when asked to do so.

Please check that this Question Booklet contains 75 questions. In case of any discrepancy, information of the contains of the Assistant Superintendent within 10 minutes of the start of test.

Each question has four alternative answers (A, B, C, D) of which only one is correct. For each quesdarken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer S with Black Ball Point / Black Gel pen.

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.

Negative marking will be adopted for evaluation i.e., 1/4th of the marks of the question will be deducted for each wrong answer. A wrong answer means incorrect answer or wrong filling of bubble.

For calculations, use of simple log tables is permitted. Borrowing of log tables and any other material is not

11. For rough work only the sheets marked "Rough Work" at the end of the Question Booklet be used.

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.

13. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.

14. 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.

15. 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.

16. Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculator is not allowed.

1. Which statement describes cartography most accurately?

- (A) It is the science of map making and map designing
- (B) It is the science of symbolic representation
- (C) It deals with construction of projections
- (D) Cartography is the science of data collection

2. The graticule is:

- (A) The networks of latitudes and longitudes
- (B) The system of directions in a compass
- (C) An instrument for map making
- (D) A mark put on a map for future reference

3. The cardinal points are the:

- (A) Four corners of a map
- (B) Four main directions on a compass
- (C) Position of the two poles
- (D) Four critical positions on the earth in its orbit around the sun

4. The latitude of a place is measured at a distance from the:

(A) Equator in kms

(B) Equator as an angle

(C) Prime meridian as an angle

(D) Poles as an angle

5. A map can be defined as a/an:

- (A) Representation of earth or its part to some scale
- (B) Visual representation of the earth surface
- (C) Line diagram of the earth or its parts
- (D) Outline of the various types of landforms

6. The actual height of places above the sea level are shown by :

(A) Contours

(B) Spot heights

(C) Hachures

(D) Hill shading

7. The scale is the :

- (A) Ratio between vertical height and ground distance between two points
- (B) Ratio between actual and map distance between two points
- (C) It is overall size of the area shown on a map
- (D) It is an instrument used for measuring areas on maps

o Wh	en a very long distance is shown by a sm	all map d	istance, the scale is called a :
	Large scale	(B)	Small scale
	Universal scale	(D)	Ordinary scale
o The	spacing of counter lines indicates :		
	Degree of slope	(B)	Direction of slope
	Land use	(D)	Length of slope
10 4-	instrument used for reducing or enlargin	ng a map i	s:
	Pantograph	(B)	Barograph
(C)	Planimeter	(D)	Orthometer
11 Th	e planimeter is used for measuring the :		
11. 111	Directions on a map	(B)	Areas on a map
(A)		(D)	Altitude on maps
12 W	nich of the following is the largest scale n	nap ?	
	Control of the Contro	(B)	Wall map
(A)		(D)	Cadastral map
13. Th	e topographical maps of India are publi	shed by:	
(Δ) Government of India	(B)	Geographical Survey of India
(C		(D)	Geological Survey of India
14 W	hat is usually shown with the help of a Ca	adastral r	пар ?
) Cultural features	(B)	Land use
(C		(D)	Mineral resources
15. T	he thematic map is a/an :		
	() General purpose map	(B)	Special purpose map
The state of the s	C) Atlas map	(D)	Large scale map
16. A	scale showing a particular ground dista	nce by a l	ine of a definite length is called:
	A) R.F.	(B)	Fiditiscare
	C) Graphical scale	(D) Statement scale
17. I	n case of a graphical scale the zero is sho	own on:	
	A) The left hand end	(B	The right hand end
	C) One division before the right hand end	(D	One division after the left hand end
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18.	W	ich type of scale facilitates	a direct measuremen	t of distances from the map	?
	(A)	Graphical	(B)	R.F.	
	(C)	Statement	(D)	Beaufort	
19.	In	case of R.F., the denominat	or of the fraction show	vs the:	
	(A)	Ground distance	(B)	Map distance	
	(C)	Any distance	(D)	It does not show any distance	ce
20.	Tw	o or three closed contour lin	es drawn very close to	each other with a large spa	ice left em
	in t	he centre indicate a :			
	(A)	Conical hill	(B)	Plateau	
5	(C)	Steep slope	(D)	Gentle slope	
			THE RESIDENCE		
21.	Cor	tours drawn at a uniform d	istance indicate :		
	(A)	Gentle slope	(B)	Steep slope	
	(C)	Uniform slope	(D)	Convex slope	
22.	Dot	s marked on maps with a nu	ımber indicating its a	ltitude are called :	
	(A)	Hachures	(B)	Bench marks	
	(C)	Spot heights	(D)	Trigonometrical stations	
23.	Sma	Il triangles on topographic	al maps with figures w	ritten against them are call	led:
	(A)	Spot height	(B)	Reference points	
	(C)	Trigonometric stations	(D)	Bench marks.	
24.	Byv	what colour are the contour	s shown on topologica	l maps ?	
	(A)	Blue	(B)	Green	
	(C)	Brown	(D)	Black	
25.	The	bearing is the angular dista	nce of an object from		
	(A)	The magnetic north measured	in clockwise direction		
	(B)	The geographical north meast	ared in anti-clockwise di	irection	
	(C)	Magnetic north measured in a	nti-clockwise direction		
	(D)	Any one cardinal point measu	ared clockwise		

26. A uniform but steep slope is shown by	(B) Spare but equi spaced contou
(A) Close but equi spaced contours	(D) Form lines and hachures
(C) Closely spaced contours in pairs	(D) Form lines and nacroaces
27. Which of the following represents ste	enest gradient?
	(B) 1:50
(A) 1:200	(D) 1:20
(C) 1:100	
28. The loxodrome is a: (A) Line of constant bearing crossing al	I meridians at the same angle
(A) Line of constant dearing crossing (B) Straight line on a map projection	
(C) Line drawn parallel to the equator	
(D) Line representing a small circle on t	he globe
29. The term local relief of an area impl	ies the:
A tribude of the highest point in unc	n ca
(D) Average height of the area above 5	CA ICYCI
(C) Altitude of the lowest point in the composition of the lowest point in the composition (D) Difference between the highest and	d the lowest points at the men
30. An isopleth is a line connecting place	es: (B) With equal cloudiness
(A) With equal attitude	and the second s
(C) Having the same value of phenome	
31. The gradient can be defined as the	
(A) Height above sea level	nd lowest points
(B) Difference between the highest ar (B) Difference between the highest are provided by the second of the secon	al distance
(C) Decline in height per unit of vertice (D) Decline in height per unit of horizontal decline in height per unit of height per uni	ontal distance
32. The magnetic declination is the :	
A Committee of the comm	l and magnetic north
(D) Difference between geographical	and magnetic factor
(C) Two grownshical bearing of a p	OOLDI
(D) Error in the bearing due to local to	merierence
and the state of t	describe a projection most accurately?

- (B) Transformation of spherical earth on to a plane surface
 (C) Drawing a map of the world or a part thereof
 (D) Representation of the relief features on a map

34.	What is the contour interval on toposhe	ets with a sc	ale of 1 : 50,000 ?
	(A) 10 meters	(B)	20 meters
	(C) 50 meters	(D)	100 meters
35.	What will be the R.F. of a map with scale	e 1 cm to hal	fakm?
	(A) 1:50,000	(B)	1:25,000
	(C) 1:1,00,000	(D)	1:500
36.	The developable surface is a/an:		
30.	(A) Surface which can be converted to any	chane	
	Surface which can be converted into p.		
	(C) Surface which resembles the earth surface.		
	(D) Area which can be developed economic		
	(b) Faca windirean oc developed economic	cuity	
37.	What kind of developable surface is used	for drawing	g conventional projections ?
	(A) Plane surface	(B)	Conical surface
	(C) Spherical surface	(D)	No developable surface
38.	What will be the projection called whe	n the develo	opable surface touches the globe at the
	equator?	4	1 - p-4/=1/
	(A) Cylindrical	(B)	Equatorial
	(C) Conical	(D)	Zenithal
20	When the developable surface touches th	a globe at th	a note the reculting projection is called .
39.		(B)	Oblique projection
	(A) Polar projection (C) Zenithal projection	(D)	Equatorial projection
	(C) Zeilmarprojection	(1)	Equation projection
40.	When the projection is obtained by pro-	ojecting the	graticule onto the developable surface
	using light, it is called a:	17 190	RALDING DOWN TO BE
	(A) Zenithal projection	(B)	Perspective projection
	(C) Conical projection	(D)	Conventional projection
41.	When no use of light is made it yields a	proj	ection.
	(A) True shape	(B)	Homolographic
	(C) Perspective	(D)	Non perspective
42	Which is not sought often quality of a pro-	lantlan 9	
42.	Which is not sought after quality of a pro	The state of the s	Accuracy of shape
	(A) Accuracy of area (C) Correct directions	(B)	Accuracy of shape
	(C) Correct directions	(D)	Size of the map
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ale by a homolographic p	rojection?
43. What is shown correctly by a homolographic p	(B) Shape
(A) Area	(D) Paritime
(C) Direction	The Late Confirms of Literature
a azimuthal proj	ection ?
44. What is shown correctly on an azimuthal proj	(B) Areas
(A) Shapes	(D) Size
(C) Directions	
in anomonic	projections ?
45. What is the source of light kept in gnomonic	(B) Periphery of the globe
(A) Centre of the globe	(D) May be anywhere
A sin finity	The state of the s
(C)	ly on projection.
46. Polar areas are represented more accurate	(B) Zenithal
(A) Conical	(D) Mercators
(C) Cylindrical	New Section 1997
(C) C)	- shown as 1
47. In cylindrical projections the meridians are	(B) Horizontal straight lines
47. In cylindrical page	(D) Vertical straight lines
(A) Circles	
(C) Ares or curves	tal straight lines ?
ingtions represent the parallel a	is horizontal straig
48. Which projections represent the parallel a	(D) Bonne's
(A) Cylindrical	(D) Boilies
(C) Zenithal	
49. What is the characteristic of Bonne's pro	jection: (B) Orthomorphic
49. What is the characteristic or	(B) Ormomorphie
(A) Equal area	(D) Azimuthal
(C) Equidistant	
lection is a modific	cation of:
50. International map projection is a modific	(B) Conical projection
(A) Ronne's Projection	(D) Mercators projection
(C) Polyconic projection	
- age are W	ith reference to:
51. Bearings of a prismatic compass are w	(B) Magnetic north
(A) Geographical north	(D) Grid north
(C) True north	
1/17	are:
52. Choropleth suits better when the data	(B) Point specific
(A) Location specific	(D) Qualitative in nature
(C) Area specific	and metallic
(0)	
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A STATE OF THE PARTY OF THE PAR	

53.	Ina	dot map the value of the dots:		Turning for each miles
	(A)	Remains constant	(B)	Varies in various parts of map
	(C)	May or may not vary	(D)	There is no value of dots
54.	Pie	diagrams are also known as :		
	(A)	Pictorial diagrams	(B)	Circle and Sector diagrams
	(C)	Ring diagrams	(D)	Spherical diagrams
55.	Wh	at is the appropriate technique for showin	g the	rural and urban population on a single
	map			
	(A)	Rural population by dots and urban by chorog		
	(B)	Rural population by dots and urban by propor		
	(C)	Urban population by dots and rural by propor		rircles
	(D)	Rural population by Choropleth and urban by	dots	
56.	Ag	raph showing the relationship between wet	bulb t	emperature and relative humidity for 12
	mo	nths is called:		Application of the
	(A)	Climograph	(B)	Climatograph
	(C)	Hythergraph	(D)	Climatic comfort graph
57.	Wh	at is the spectral range of human eye?		
	(A)	0.3 to 0.7 microns	(B)	0.4 to 0.7 microns
	(C)	0.3 to 0.9 microns	(D)	0.2 to 1.0 microns
58.	The	e primary colours are :		
	(A)	White, Red, Green and Blue	(B)	Red, Green, Blue and Yellow
	(C)	Red, Green and Blue	(D)	Red, Violet and Indigo
59.	Th	e term FCC applies to :		
	(A)	Aerial photographs	(B)	Digital images
	(C)	Satellite Imageries	(D)	Scanners
60.	In	the interior of the earth		
	(A)	The temperature falls with increasing depth		The pressure falls with increasing depth
	(C)	to the second of	(D)	Pressure remains constant with varying depth
Ma	sters	in Remote Sensing & GIS/BGI-31183-A	9	[Turn ove

(A) Earth's surface layer (C) Ocean bottom rocks (D) Arock which is rich in calcium 62. Which of the major earthquake waves are lost or absorbed in the core part of the earth? (A) P-Waves (B) S-Waves (C) L-Waves (D) None 63. The sky looks blue because of: (A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans (D) Absorption of blue light in the oceans	S. J. Sandle	6.1		does sial refer to ?	CI What
(C) Ocean bottom rocks (B) Artock (C) Which of the major earthquake waves are lost or absorbed in the core part of the earth? (A) P-Waves (B) S-Waves (C) L-Waves (D) None (A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans (D) When the data pertains to a total and various components thereof, it can be east absorption by a components.	the earth	The core part of the	(B) T		
62. Which of the major earthquake waves are lost or absorbed in the core part of the earth? (A) P-Waves (B) S-Waves (C) L-Waves (D) None 63. The sky looks blue because of: (A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be east absorption of the colour in the colour in the colour in the oceans	rich in calcium	A rock which is rich i	(D) A		7.5
(A) P-Waves (C) L-Waves (D) None 63. The sky looks blue because of: (A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be easily absorptive.	4 A 4 A 9				4.7
(A) P-Waves (C) L-Waves (D) None 63. The sky looks blue because of: (A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be easily absorptive.	re part of the earth :	orbed in the core p	st or abso	sale major earthquake waves are lo	7/8/1/7/2/2/WW
(C) L-Waves 63. The sky looks blue because of: (A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be east above by a components.		S-Waves	(B) S		
63. The sky looks blue because of: (A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be easily above by a components.		None	(D) N		0.000
(A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be easily the same by a component			1000	Waves	(C)
(A) Selective absorption of radiation by atmosphere (B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be easily the same by a component				La lacks blue because of :	CO. (77)
(B) Selective scattering of radiation by atmosphere (C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be easily a sharen by a components.			here	S. A. sing observation of radiation by atmosp	63. The
(C) Reflection of blue colour in the oceans (D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be easily the colour by a component by a colour by a col			ere	Selective assorption of radiation by atmosph	(A)
(D) Absorption of blue light in the oceans 64. When the data pertains to a total and various components thereof, it can be eas				Selective scattering of radiation of	(B)
64. When the data pertains to a total and various components thereof, it can be eas				Reflection of blue colour in the oceans	(C)
ab accord by 0					
ab accord by 0	thereof, it can be easily	components ther	various c	to a total and	
chown by 9					
(B) Piculagian		Pie diagram	(B)		
(A) Choropleth map					(A)
(C) Flow chart			(-)	Flow chart	(C)
the state of the s					
65. What is shown with the help of profiles? (B) Population distribution	stribution	Population distribu	(B)		
(A) Relief features (D) Industrial production					9 1
(C) Weather elements		/ 	(12)	Weather elements	(C)
66. Which of the following is an example of a space borne remote sensing platform?	sing platform ?	rne remote sensing	nace hori	and a factorial and a factoria	
66. Which of the following is an example of a space 55 (B) Satellite) Satellite	(B)	nich of the following is an example of a s	66. W
(A) Aircraft (D) Bolloon					
(C) Microwave tower (D) Balloon) Dans	(D)) Microwave tower	(C
was an placed in orbit.	t.	orbit.	aloced in	RECEIPTED TO SERVICE	
67. Most of the communication satellites are placed in orbit. (B) Polar		R) Polar	(R)	ost of the communication satellites are	67. M
(A) Geostationary nor polar	stationary nor polar	Neither geostatio	(D)) Geostationary	(A
(C) Sun synchronous (D) Notate governous		J) Memory Brown	(12)) Sun synchronous	(0
The shape restion Satellite?	Commission of the second	tion Satellite?	abragas		
68. Which satellite has been called the Earth observation Satellite? (B) 1 RS-P2		B) 1 RS-P2	(D)	hich satellite has been called the Earth	68. V
(A) Cartosat-I (D) EDUSAT			10		
(C) 1 RS -1D (D) EDOSM		D) LDOOM	(L) 1 RS -1D	(0
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09.	WI	nich one of the following is not	a GIS software?	
	(A)	ARCVIEW	(B)	OSIRIS
	(C)	ILWIS	(D)	IDRISI
70.	Th	e name given to an instrument	for viewing stereo	pairs for interpretation is a :
		Stereogram		Stereograph
	(C)	Stereomata	(D)	Stereoscope
71.	Wh	nich of the following methods i	s most suitable to sh	now density of population ?
	(A)	Dot method	(B)	Isopleth
	(C)	Choropleth	(D)	Pie diagram
72.	Wh	ich among the following is no	the component of	GIS?
	(A)	Hardware	(B)	Software
	(C)	People	(D)	Map scale
73.	The	pole is represented on cylind	rical projection as a	1:
	(A)	Straight line	(B)	Point
	(C)	Circle	(D)	Semi circle
74.	Wh	ich one of the following is mor	e useful in navigatio	on and aviation ?
		Mercators projection		Gnomonic projection
	(C)	Sinusoidal projection	(D)	Mollweid's projection
75.	Nati	ional Atlas and Thematic Map	ping Organisation	is located at :
		Kolkata		Dehradun
	(C)	Pune	(D)	New Delhi