CET-2015

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Booklet Series Code : A

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

	Answer	Sheet.	
Roll	No.	In Figures	In Words
0.M.	R. Answe	r Sheet Serial No.	
		Signa	ature of the Candidate :
Subi	ect : BIOI	OGY	
	70 minutes		ber of Questions : 60 Maximum Marks : 120
			ON THE BOOKLET UNTIL ASKED TO DO SO
INSTR	RUCTIONS		
	Vrite your Rol nd nowhere els		Booklet and also on the OMR Answer Sheet in the space provided
			of Question Booklet on the OMR Answer Sheet. Darken the I Point / Black Gel pen.
3. D	o not make an	ny identification mark of	n the Answer Sheet or Question Booklet.
			e staple(s) gently when asked to do so.
		hat this Question Book intendent within 10 mir	tet contains 60 questions. In case of any discrepancy, inform the nutes of the start of test.
da	arken only one		wers (A, B, C, D) of which only one is correct. For each question, D), whichever you think is the correct answer, on the Answer Sheet
7. lf	you do not w		n, leave all the bubbles corresponding to that question blank in the
	arken the bub uestion Book		ver Sheet according to the Serial No. of the questions given in the
			r evaluation i.e., 1/4th of the marks of the question will be deducted er means incorrect answer or wrong filling of bubble.
al	lowed.		es is permitted. Borrowing of log tables and any other material is not
12. Ti gi ci	he Answer Sh iven on the An	neet is designed for com nswer Sheet, it may ma the above account, i.	"Rough Work" at the end of the Question Booklet be used. uputer evaluation. Therefore, if you do not follow the instructions the evaluation by the computer difficult. Any resultant loss to the e., not following the instructions completely, shall be of the
13. A 14. In Bo	fter the test, ha	and over the Question B Answer Sheet, the Que taken out of the exami	ooklet and the Answer Sheet to the Assistant Superintendent on duty. estion Booklet, or its part or any material copied/noted from this ination hall. Any candidate found doing so, would be expelled from
15. A pa m	candidate what per possibly eans during the	o creates disturbance o of any assistance or for	of any kind or changes his/her seat or is found in possession of any und giving or receiving assistance or found using any other unfair spelled from the examination by the Centre Superintendent/Observer
16 T	last		

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

Biology/A

1.	Storage product of algae is :							
	(A) Glycogen	(B)	Fat					
	(C) Cellulose	(D)	Proteins					
2.	Chloroplasts of Ulothrix are :							
	(A) Branched	(B)	Girdle - shaped					
	(C) Brick shaped	(D)	Unbranched					
3.	Plasmodium is found in :							
	(A) Myxomycetes	(B)	Basidiomycetes					
	(C) Chytridiomycetes	(D)	Oomycetes					
4.	Black rust of wheat is caused by :							
	(A) Puccinia graminis tritici	(B)	Albugo Candida					
	(C) Ustilago tritici	(D)	Anguina tritici					
5.	Dolipore septum is present in :							
	(A) Oomycota	(B)	Basidiomycota					
	(C) Myxomycota	(D)	Plasmodiophoromycota.					
6.	Bacteria with flagella all around the periphery of cell is called :							
	(A) Peritrichous	(B)	Monotrichous					
	(C) Lophotrichous	(D)	Amphitrichous					
7.	The outer most sheath of TMV is termed as :							
	(A) Plasmid	(B)	Virion					
	(C) Capsid	(D)	Peplomeres					
8.	Storage zone of Marchantia is devoid of :							
	(A) Oilcell	(B)	Starch grains					
	(C) Nostoc	(D)	Reticulate thickening					
9.	Elaters are present in capsule of :							
	(A) Riccia	(B)	Marchantia					
	(C) Anthoceros	(D)	Funaria					
10.	Trabeculae in Selaginella represents modifie	ed :						
	(A) Endodermal cells	(B)	Pericycle cells					
	(C) Inner cortical cells	(D)	Phloem cells					
11.	Sex organs in Pteridophytes are :							
	(A) Unicellular and Jacketed	(B)	Multicellular and non Jacketed					
	(C) Multicellular and jacketed	(D)	Unicellular and non Jacketed.					
12.	Root system in fern is :							
	(A) Primary and branched	(B)	Primary and unbrached					
	(C) Primary and adventitious root 🛥	(D)	Adventitious roots					

Biology/BFH-30853-A

[Turn over

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13.	Which of the following is not present in	leaf of Slagin	ella ?
	(A) Xylem	(B)	Phloem
	(C) Palisade parenchyma	(D)	Stomata
14.	Neck canal cells are absent in the arche	gonium of :	
	(A) Dryopteris	(B)	Cycas
-	(C) Funaria	(D)	Sphagnum
15.	Vascular bundles in Cycas are :		
	(A) Conjoint, collateral and closed	(B)	Conjoint, collateral and open
	(C) Conjoint, bicollateral and open	(D)	Conjoint, bicollateral and closed
16.	A membranous layer between edible pa	art and seed c	oat of Pinus seed is a remnant of :
	(A) Integument	(B)	Nucellus
	(C) Wall of megaspore	(D)	Endosperm
17.	Female gametophyte in gymnosperm is	analogous to	which part of angiosperms ?
	(A) Carpel	(B)	Nucellus
	(C) Embryo sac	(D)	Thalamus
18.	In dicot stem, vascular bundles are :		
	(A) Scattered	(B)	Closed
	(C) Concentric	(D)	Arranged in rings
19.	Which of the following is an insectivoro	us plant ?	
	(A) Cycas	(B)	Sunflower
	(C) Cuscuta	(D)	Nepenthes
20.	Which structure in embryo sac of angio	sperms repres	ent archegonium ?
	(A) Antipodal cell	(B)	Egg
	(C) Synergids	(D)	Both egg and synergids
21.	Scutellum of maize is called :		
	(A) Cotyledon	(B)	Coleonhiza
	(C) Coleoptile	(D)	Hypocotyle
22.	Plants which prefer extreme sunlight ar	e called :	
	(A) Halophytes	(B)	Heliophytes
	(C) Sciophytes	(D)	Xerophytes
23.	Which of the following is a submerged h	ydrophyte ?	
	(A) Ceratophyllum	(B)	Utricularia
	(C) Hydrilla	(D)	Lemna
24.	Soil brought along with river water is ca	lled :	
	(A) Aeolian	(B)	Colluvial
	(C) Glacial	(D)	Alluvial

25.	Chromosomes are concerned with :		
	(A) Respiration	(B) Growth	
	(C) Transmission of heredity characters	(D) Assimilation	
26.	Which of the following is not bounded by c	cell membrane ?	
	(A) Spherosomes	(B) Mitochondria	
	(C) Ribosomes	(D) Lysosomes	
27.	Crossing over occurs at :		
	(A) Two strand stage	(B) Four strand stage	
	(C) Three strand stage	(D) One strand stage	
28.	Stomata open at night and close during day	y time in :	
	(A) Mesophytes	(B) Hydrophytes	
	(C) Shrubs	(D) Succulents	
29.	An inflorescence with branched axis is :	and the second sec	×.
	(A) Umbel	(B) Panicle	
	(C) Head	(D) Corymb	
30.	Casparian strips contain :		
	(A) Cutin	(B) Pectin	
	(C) Suberin	(D) Wax	
31.	A prokaryotic cell lacks :		
	(A) Cell wall	(B) Cell membrane	
	(C) Cytoplasm	(D) Nucleolus	
32.	The two subunits of 70 S ribosomes are :		
	(A) 50 S and 30 S	(B) 45 S and 25 S	
	(C) 50 S and 20 S	(D) 40 S and 30 S	
33.		s produced due to improper functioning of :	
	(A) Thyroid	(B) Pituitary	
	(C) Thyroid and pituitary	(D) Thyroid, pituitary and thymus	
34.	Male cockroach differs from female beca		
	(A) Long antennae	(B) Amphids	
1.1	(C) Anal styles	(D) Anal cerci	
35.	Which of the following cranial nerves in m		
	(A) Optic	(B) Vagus	
	(C) Trochlear	(D) Olfactory	
36.	Distance between two strands of DNA is :		
	(A) 20 Å	(B) 34 Å	
	(C) 3.4 Å	(D) 340 Å	

[Turn over

3	7	. Which one is	s not a	n essential	amino acid '	2
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- (A) Leucine
- (C) Methionine

38. The term protoplasm was coined by :

- (A) Purkinje
- (C) Schleiden & Schwann
- 39. Chiasmata are first seen in :
 - (A) Leptotene
 - (C) Pachytene
- 40. During muscle contraction :
 - (A) Size of A-bands remains the same
 - (C) Size of I-bands decreases
- 41. Nerve transmission is :
 - (A) Mechanical process
 - (C) Biological process

42. The term heterochromatin was coined by :

- (A) Morgan
- (C) Warburg

43. Esterases belong to the category of :

- (A) Lyases
- (C) Transferases

44. Respiratory mechanism is controlled by :

- (A) Central nervous system
- (C) Parasympathetic nervous system

45. An organism with two identical alleles is :

- (A) Dominant
- (C) Homozygous

46. Tendon connects :

- (A) Bone to bone
- (C) Muscle to muscle

47. In human beings 45 chromosomes/single X/XO abnormality causes :

- (A) Down's syndrome
- (C) Turner's syndrome

48. Nucleolus takes part in synthesis of :

- (A) rRNA
- (C) mRNA

- (B) Lysine
- (D) Alanine
- (B) Leeuwenhoek
- (D) Dujardin
- (B) Zygotene
- (D) Diplotene
- (B) Size of H-zone becomes smaller
- (D) Diameter of fibre increases
- (B) Chemical process
- (D) Physical process
- (B) Heitz
- (D) Hammerling
- (B) Ligases
- (D) Hydrolases
- (B) Sympathetic nervous system
- (D) Autonomic nervous system
- (B) Hybrid
- (D) Heterozygous
- (B) Bone to muscle
- (D) Nerve to muscle
- A/AO abnormanty causes :
 - (B) Klinefelter's syndrome
 - (D) Edward's syndrome
 - (B) /RNA
 - (D) DNA

49.	Which one is not related to chromosoma	abnormality ?	
	(A) Aneuploidy	(B) Euploidy	
	(C) Klinefelter's syndrome	(D) AIDS	
50.	Release of pancreatic juice is stimulated	l by :	
	(A) Cholecystokinin	(B) Secretin	
	(C) Enterokinase	(D) Trypsinogen	
51.	Head of humerus is articulated with pect	toral girdle by a joint :	
	(A) Hinge	(B) Ball and socket	
	(C) Immovable	(D) Pivot joint	
52.	Hypophysis is the alternate name of :		
	(A) Pituitary	(B) Thyroid	
	(C) Thymus	(D) Pineal gland	
53.	Concave lens is employed to correct :		
	(A) Presbiopia	(B) Hypermetropia	
	(C) Cataract	(D) Myopia	
54.	Complete haploid set of chromosomes o	f a species is :	
	(A) Genotype	(B) Genome	
	(C) Genetic code	(D) Allele	
55.	Plasma membrane is made of :		
	(A) Proteins and carbohydrates	(B) Proteins and lipids	
	(C) Proteins, lipids and carbohydrates	(D) Proteins, some nucleic acid and lipi	ds
56.	Genetic code was discovered by framesh	ift mutation by :	
	(A) Crick	(B) Watson	
	(C) Franklin	(D) Khorana	
57.	Which one is carrier of microfilariae?	and the second s	
-	(A) Aedes	(B) Anopheles	
	(C) Tabanus	(D) Culex	
58.	Kidney stone is produced due to :		
	(A) Deposition of sand particles	(B) Precipitation of proteins	
	(C) Crystallisation of oxalates	(D) Blockage of fats	
59.	Universal recipient blood group is :		
	(A) A	(B) AB	
	(C) B	(D) O	
60.	Net gain of ATP in glycolysis is :		
	(A) 6	(B) 2	
	(C) 4	(D) 8	

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Panjab University, Chandigarh CET(UG)-2015 FINAL ANSWERS / KEY

8

С

18

D

28

D

38

А

48

37

D

47

9

В

19

D

29

В

39

D

49

10

А

20

D

30

С

40

А

50

35

В

45

Subject: BIOLOGY Booklet Series Code: A									
1	2	3	4	5	6	7			
А	В	А	А	В	А	С			
11	12	13	14	15	16	17			
С	D	С	В	В	В	С			
21	22	23	24	25	26	27			
А	В	Х	D	С	С	В			

34

С

44

31

D

41

32

А

42

33

В

43

В	В	D	А	С	В	С	А	D	В
51	52	53	54	55	56	57	58	59	60
В	Α	D	В	С	Α	D	С	В	D

36

А

46

Note: An 'X' in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question.