UP-CPMT - 2005

Paper-1

Zoology

 Class Crustacea differs from Insection 	cta in having :
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- 1) two pairs of antennae
- 2) jointed foot
- 3) chitinous cuticle
- 4) none of the above

2. Ex-flagellation in the life cycle of *Plasmodium* occurs in :

- 1) trophozoites
- 2) microgametocytes
- 3) macrogametocytes
- 4) merozoites

3. In DNA, which is absent?

- 1) Adenine
- 2) Thymine
- 3) Guanine
- 4) Uracil

4. Food storage in Leucosolenia occur by :

- 1) ostia
- 2) osculum
- 3) the socyte
- 4) spongocoel

5. Cleavage in frog's zygote is:

- 1) diploblastic
- 2) heteroblastic
- 3) holoblastic
- 4) meroblastic

6. Major nitrogenous waste product in ureotelic animals like rabbit and other mammals is :

- 1) uric acid
- 2) urea
- 3) ammonia

4) amino acids
7. Chloragogen cells help in :
1) respiration
2) reproduction
3) circulation
4) nutrition
8. Which have not left any evidences of organic evolution?
1) Archaeopteryx
2) Cow
3) Peripatus
4) Neopilina
9. A haemophilic woman marries a normal man then :
1) all the children will be normal
2) all the sons will be haemophillic
3) all the girls will be haemophillic
4) half girls will be haemophillic
10. Which one is single membrane cell organelle ?
1) Endoplasmic reticulum
2) Mitochondria
3) Lysosomes
4) Chloroplast
11. Chloragogen cells of earthworms are analogous to vertebrate :
I) lungs
2) liver
3) gut
4) kidneys
i) Nanoyo
12. Acrosome is formed by:
1) nucleus
2) Golgi apparatus
3) mitochondria
4) none of these
13. Which is present in male rabbit but not present in female rabbit?
1) Urethra
2) Vagina
3) Uterus

4) Vasdeferens
14. Lymphocytes are formed by :
1) plasma cells
2) mast cells
3) liver cells
4) none of these
15. Urine is concentrated in :
1) kidney
2) liver
3) colon
4) heart
16. Example of analogous organs is :
1) wings of bird and insect
2) forelimbs of horse and man
3) teeth of elephant and man
4) none of the above
17. Striped muscles are characterised by :
1) syncytial
2) spindle shape
3) uninucleate
4) none of the above
18. If dorsal nerve of spinal cord is broken down then its effect is :
1) no impulse is transmitted
2) impulse is transmitted but slowly
3) impulse is transmitted fast
4) no effect on impulse
19. Trochophore is the larva of :
1) Neopilina
2) Chiton
3) Pila
4) All of these
20. Maximum absorption of water occurs in :
1) colon

2) rectum

3) large intestine

1) Pe 2) Ne 3) Ec 4) Ar	ripatus eopilina hidna chaeopteryx	shows evidences		
	nany sperms ar		primary spermatocytes'	
1) 1		2) 4	3) 16	4) 32
23. Bowm	an's capsule is	found in :		
1) glo	omerulus			
2) uri	niferous tubule			
3) ne	phorn			
4) Ma	alpighian capsul	le		
24. Mutati	ons are genera	lly :		
	cessive			
2) po	lymorphic			
3) let	hal			
4) do	minant			
25. Which	is gonadotropir	n hormone ?		
1) GI	-			
2) MS	SH			
3) AE	Н			
4) FS	SH and LH			
26. Cell m	embrane in ani	mals is compose	d mainly of the molecule	es of :
1) lip	ds			
2) pr	oteins			
3) bo	th (1) and (2)			
4) ca	rbohydrates			
27. Which	is called soluble	e RNA?		
1) r-F	RNA			
2) t-F				
3) m-	RNA			
4) hn	-RNA			
28 Which	leaves the liver	and moves towa	ards kidnev?	

4) small intestine

2) Urea 3) Glycogen 4) Bile 29. On high mountains, difficulty in breathing is due to: 1) decrease in partial pressure of O ₂ 2) decrease in amount of O ₂ 3) increase in CO ₂ concentration 4) all of the above 30. Blood leaving liver and going towards heart is rich in: 1) bile 2) urea 3) ammonia		1) Ammonia			
 4) Bile 29. On high mountains, difficulty in breathing is due to: decrease in partial pressure of O₂ decrease in amount of O₂ increase in CO₂ concentration all of the above 30. Blood leaving liver and going towards heart is rich in: bile urea ammonia 		2) Urea			
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4) all of the above 30. Blood leaving liver and going towards heart is rich in: 1) bile 2) urea 3) ammonia		•	_		
30. Blood leaving liver and going towards heart is rich in : 1) bile 2) urea 3) ammonia		_			
1) bile 2) urea 3) ammonia		i) all of the above			
2) urea 3) ammonia	30.	Blood leaving liver and	going towards h	eart is rich in :	
3) ammonia		1) bile			
·		2) urea			
1) ovvagon		,			
4) Oxygen		4) oxygen			
	31. \	Which type of connecti	ve tissue produc	ed antibodies?	
31. Which type of connective tissue produced antibodies?			,		
31. Which type of connective tissue produced antibodies? 1) Mast cells		•			
1) Mast cells		3) Plasma cells			
1) Mast cells 2) Collagenous fibres		4) None of these			
1) Mast cells 2) Collagenous fibres 3) Plasma cells					
 Mast cells Collagenous fibres Plasma cells None of these 					
1) Mast cells 2) Collagenous fibres 3) Plasma cells 4) None of these 32. How many ATP are formed by oxidation of one glucose molecule in liver cells?	32.	•	-	_	
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1) Mast cells 2) Collagenous fibres 3) Plasma cells 4) None of these 32. How many ATP are formed by oxidation of one glucose molecule in liver cells? 1) 36 2) 38 3) 2 4) 8		1) 36 Sea fan' belongs to :	-	_	
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	31. '	 Mast cells Collagenous fibres Plasma cells 	·	ed antibodies?	
4) Oxygon		4) oxygen			
4) oxygon		3) ammonia			
·		2) urea			
3) ammonia		1) bile			
2) urea 3) ammonia	30.	Blood leaving liver and	going towards h	eart is rich in :	
1) bile 2) urea 3) ammonia		•			
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grinding of food testing physical and chemical qualities of food
 36. Which of the following hormone stimulates the gastric secretion? 1) Enterogastrone 2) Gastrin 3) CCK-PZ 4) Villikinin
 37. Fertilization in earthworm occurs in : 1) cocoon 2) spermathecae 3) coelom 4) seminal vesicles
 38. Husband has blood group A and wife has blood group B. What is the blood group of children? 1) A 2) B 3) AB 4) A, B, AB and O
 39. Which insect is useful for us? 1) Periplaneta 2) Musca 3) Bombyx 4) Mosquitoes
 40. 'Convergent evolution' is shown by : 1) homologous organs 2) analogous organs 3) vestigial organs 4) all of the above
 41. Organs which differ in origin but perform similar functions: 1) analogous 2) homologous 3) vestigial 4) all of these 42. Neural canal is present in:

1) humerus

	2) tibio-fibula
	3) vertebral column
	4) cranial bones
43.	Sequence of DNA (non-coding) is known as :
	1) exon
	2) intron
	3) cistron
	4) none of these
44.	Sigmoid notch is formed by :
	1) cavity formed by humerus
	2) cavity formed by radio ulna
	3) cavity formed by tibio-fibula
	4) cavity formed by femur
45.	Which of the following character is present essentialy in chordates?
	1) Ventral spinal chord
	2) Dorsal heart
	3) Pharyngeal gill slits
	4) Blood flow in forward direction in ventral blood vessels
46.	Number of cranial nerves in frog :
	1) 10 pairs
	2) 9 pairs
	3) 12 pairs
	4) None of these
47.	How many genes are present in E. coli?
	1) 200
	2) 230
	3) 231
	4) None of these
48.	'Digestion' word means :
	1) burning of food
	2) oxidation of food
	3) hydrolysis of food
	4) breakdown of food
49.	Newt and Hemidactylus differ in :
	1) body divided into head, trunk and tail

- 2) limbs four
- 3) heart chambered division
- 4) none of the above
- 50. During starvation what will be sequence of ending of food stuffs?
 - 1) Carbohydrate fat protein
 - 2) Carbohydrate protein fat
 - 3) Fat protein carbohydrate
 - 4) Fat carbohydrate protein

Botany

- 51. If centromere is in the middle the chromosome is called:
 - 1) sub-metacentric
 - 2) meta-centhic
 - 3) acenthic
 - 4) telocenthic
- 52. Mutation is more common when it is present in :
 - 1) dominant condition
 - 2) recessive condition
 - 3) constant in population
 - 4) none of the above
- 53. Jumping genes in maize were discovered by :
 - 1) Hugo de Vries
 - 2) T.H. Morgan
 - 3) Barbara McClintock
 - 4) Mendel
- 54. Respiratory roots are found in:
 - 1) Rhizopus
 - 2) Orchid
 - 3) Vallisnaria
 - 4) Mangrove plants
- 55. Which hormone is responsible for mobilization of storage food during seed germination?
 - 1) Auxin
 - 2) Gibberellin
 - 3) Cytokinin
 - 4) Ethylene

I) Nucleus
2) Plastids
3) Mitochondria
4) Lysosome
57. Pneumatophores are meant for :
1) respiration
2) anchorage
3) protection
4) nutrition
58. Core of chlorophyll is formed by :
1) Fe
2) Mn
3) CH ₃
4) Mg
59. Mark the correct sequence of layers found in root anatomy:
1) Epiblema, cortex, endodermis, pericycle
2) Cortex, epiblema, pericycle, endodermis
3) Epiblema, cortex, pericycle, endodermis
4) Cortex, epiblema, endodermis, epidermis
60. 'Heterosis' is related to :
1) cloning
2) selection
3) hybridization
4) introduction
61. Induction of cell division and delay in senescence is due to :
1) gibberellin
2) auxin
3) cytokinin
4) ethylene
62. The organelles, those take part in photorespiration are :
1) chloroplast and mitochondria
2) chloroplast, mitochondria and peroxisome
3) mitochondria and peroxisome
4) mitochondria only

56. Which cell organelle is covered by only one unit membrane?

2) horizon-O
3) horizon-B
4) horizon-C
64. By anaerobic process, the cow dung is used to produce :
1) methane
2) butane
3) ethane
4) propane
65. Stomatal opening is regulated by :
1) light
2) temperature
3) atmospheric humidity
4) wind
66. P-proteins belong to :
1) xylem parenchyma
2) trichomes
3) sieve tube elements
4) tracheids and vessels
67. Which economically important product is obtained from Cycas circinalis?
1) Timber
2) Sago
3) Essential oil
4) Resin
68. Parasitic and saprophytic conditions are more familiar in :
1) fungi
2) bacteria
3) aluae
4) ferns
69. Which enzyme is most specific ?
1) Trypsin
2) Pepsin
3) Sucrase
4) Nuclease

63. Humus is present in :1) horizon-A

70. CO₂ in CAM plants is in: 1) mesophyll cells 2) bundle sheath 3) both (1) and (2) 4) none of these

- 71. The wall of bacteria consists of:
 - 1) N-acetyl glucosamine
 - 2) N-acetyl muramic acid
 - 3) both (1) and (2)
 - 4) cellulose
- 72. Guttation occurs through:
 - 1) lenticels
 - 2) hydathodes
 - 3) pneumatophores
 - 4) epidermis
- 73. C-DNA is formed from m-RNA by which enzyme?
 - 1) Restriction endonuclease
 - 2) Reverse transcriptase
 - 3) DNA polymerase
 - 4) RNA polymerase
- 74. Living in same habitat, organisms of same species form :
 - 1) biosphere
 - 2) community
 - 3) population
 - 4) niche
- 75. O₃ depletion is due to:
 - 1) PAN
 - 2) NOx
 - 3) CFCs
 - 4) Sulphates
- 76. In RNA, which is absent?
 - 1) Adenine
 - 2) Guanine
 - 3) Thymine
 - 4) Cytosine

77. Lichens show:

- 1) mutualism
- 2) commensalism
- 3) parasitism
- 4) saprophytism
- 78. In which of the following, oxygen does not evolve during photosynthesis?
 - 1) Photosynthetic red algae
 - 2) Photosynthetic green algae
 - 3) Photosynthetic blue-green algae
 - 4) Photosynthetic bacteria
- 79. Structures not similar in structure and origin but perform same function :
 - 1) homologous structures
 - 2) analogous structures
 - 3) adaptive structures
 - 4) variable structures
- 80. Quiescent centre is present in:
 - 1) Root apex
 - 2) shoot apex
 - 3) parenchyma
 - 4) collenchyma
- 81. Enzymes of electron transport system are present in :
 - 1) inner mitochondrial membrane
 - 2) matrix
 - 3) intermembranous space
 - 4) endoplasmic reticulum
- 82. Which statement is incorrect?
 - 1) Plant virus contain RNA
 - 2) Animal virus contain DNA
 - 3) T₄ contains double strandard DNA
 - 4) TMV contains double stranded RNA
- 83. Which of the following accepts terminal electron?
 - 1) Molecular O₂
 - 2) Molecular H₂
 - 3) Molecular CO₂

- 4) NADPH₂
- 84. A distinct mechanism that usually involves a short segment of DNA with remarkable capacity to move from one location in a chromosome to another is called:
 - 1) DNA replication
 - 2) DNA hybridizaion
 - 3) DNA recombination
 - 4) DNA transposition
- 85. Most cytogenic activity occur during:
 - 1) interphase
 - 2) telophase
 - 3) prophase
 - 4) anaphase
- 86. The S-phase of cell cycle is characterised by :
 - 1) duplication of chromosome
 - 2) shortening of chromosome
 - 3) duplication of DNA
 - 4) duplication of centriole
- 87. Protonema is formed in:
 - 1) moss
 - 2) liverworts
 - 3) ferns
 - 4) Cycas
- 88. Necessary conditions for seed germiniation is :
 - 1) light and O₂
 - 2) light and high temperature
 - 3) vernalization and scarification
 - 4) water and O₂
- 89. The fruit of Solanaceae is:
 - 1) berry or capsule
 - 2) pome
 - 3) legume or pod
 - 4) drupe
- 90. Aleurone layer is found in:
 - 1) embryo
 - 2) nucellus

endosperm				
4) endodermis				
91. Pollination occurri	ing from one flower to	another of same plant	is:	
1) autogamy				
2) allogamy				
3) geitenogamy				
4) none of these				
92. Mosses are attacl	hed to substratum by	:		
1) roots				
2) capsule				
3) rhizoids				
4) main axis				
93. Loss of water from	n the tip of leaves is I	known as :		
1) transpiration				
2) bleeding				
3) exudation				
4) guttation				
94. Initiation dodon is	:			
1) AUG	2) UUU	3) UAG	4) AAG	
95. Cell membrane is	made up of :			
1) protein				
2) cellulose				
3) lipids				
4) lipids, carbohy	ydrates and protein			
96. Fruits are formed	in:			
1) Brassica				
2) Fern				
3) Cycas				
4) Funaria				
97. Casparian strips a	are present in :			
1) endodermis				
2) epidermis				
3) cortex				
4) pericycle				

- 98. Which of the following constitute about 10-20% of total cellular RNA:
 - 1) m-RNA
 - 2) r-RNA
 - 3) t-RNA
 - 4) hn-RNA
- 99. Coding sequences of DNA in split genes are :
 - 1) exon
 - 2) intron
 - 3) rhizoids
 - 4) cistron
- 100. Phytotron is:
 - 1) a controlled condition chamber for tissue culture
 - 2) leaf culture process
 - 3) special culture of plants
 - 4) root culture process

Answer Key

1) 1	2) 2	3) 4	4) 3	5) 3	6) 2	7) 4	8) 2	9) 2	10) 3
11) 2	12) 2	13) 4	14) 1	15) 1	16) 1	17) 1	18) 1	19) 4	20) 1
21) 4	22) 3	23) 4	24) 1	25) 4	26) 3	27) 2	28) 2	29) 1	30) 2
31) 3	32) 2	33) 1	34) 3	35) 4	36) 2	37) 1	38) 4	39) 3	40) 2
41) 1	42) 3	43) 2	44) 2	45) 3	46) 1	47) 4	48) 3	49) 3	50) 1
51) 2	52) 1	53) 3	54) 4	55) 2	56) 4	57) 1	58) 4	59) 1	60) 3
61) 3	62) 2	63) 1	64) 1	65) 1	66) 3	67) 2	68) 1	69) 4	70) 1
71) 3	72) 2	73) 2	74) 3	75) 3	76) 3	77) 1	78) 4	79) 2	80) 1
81) 1	82) 4	83) 1	84) 4	85) 1	86) 3	87) 1	88) 4	89) 1	90) 3
91) 3	92) 3	93) 4	94) 1	95) 4	96) 1	97) 1	98) 3	99) 1	100) 1