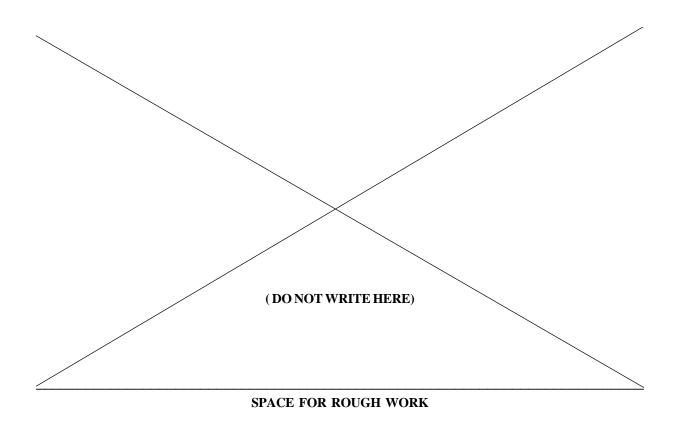
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	Instructions to Candidates			
<ol> <li>This question booklet contains 10 of Biology.</li> <li>The question paper and OMR (Op the beginning of the examination</li> <li>Choice and sequence for attemptif</li> <li>Candidate should carefully read th correct entries on the Answer Sheet SYSTEM, special care should be ta to fill QUESTION BOOKLET VE be cross-checked by the invigilato</li> </ol>	otical Mark Reader) Ar session. ng questions will be as ne instructions printed of t. As Answer Sheets are aken to mark appropria ERSION, SERIAL No.	nswer Sheets a as per the conv on the Questio e designed to su ate entries/answ and Roll No.	are issued to venience of on Booklet a uit the OPTI wers correct accurately.	examinees separately at the candidate. and Answer Sheet and make the ICAL MARK READER (OMR) ily. Special care should be taken The correctness of entries has to

- 5. Read each question carefully.
- 6. Determine the correct answer from out of the four available options given for each question.
- 7. Fill the appropriate circle completely like this ●, for answering the particular question, with Black ink ball point pen only, in the OMR Answer Sheet.
- 8. Each answer with correct response shall be awarded **one (1) mark.** There is **no Negative Marking**. If the examinee has marked two or more answers or has done scratching and overwriting in the Answer Sheet in response to any question, or has marked the circles inappropriately e.g. half circle, dot, tick mark, cross etc, mark/s shall NOT be awarded for such answer/s, as these may not be read by the scanner. Answer sheet of each candidate will be evaluated by computerized scanning method only (Optical Mark Reader) and there will not be any manual checking during evaluation or verification.
- 9. Use of whitener or any other material to erase/hide the circle once filled is not permitted. Avoid overwriting and/or striking of answers once marked.
- 10. Rough work should be done only on the blank space provided in the Question Booklet. **Rough work should not be done on the Answer Sheet.**
- 11. Immediately after the prescribed examination time is over, the Question Booklet and Answer sheet are to be returned to the Invigilator. Confirm that both the Candidate and Invigilator have signed on question booklet and answer sheet.
- 12. No candidate is allowed to leave the examination hall till the examination session is over.



## BIOLOGY

- 1. Which of the following in embryo sac of angiosperms shows filiform apparatus ?
  - A) Antipodals B) Polar nuclei
  - C) Egg D) Synergids
- 2. Which one of the following organism's plasmid was used successfully for the first time as a vector by Stanley Cohen and Herbert Boyer ?
  - A) Salmonella typhimurium B) Streptococcus pneumoniae
  - C) Staphylococcus aureus D) Rhizobium leguminosarum
- 3. During a dihybrid cross with contrasting characters in the F<sub>2</sub> generation parental genotypes will appear in \_\_\_\_\_ ratio.

A) 
$$\frac{1}{16}$$
  
B)  $\frac{2}{16}$   
C)  $\frac{3}{16}$   
D)  $\frac{9}{16}$ 

- 4. The wall of pollen tube is made up of
  - A) Cellulose and Pectin B) Only sporopollenin
  - C) Lignin and Pectin D) Pectin and Sporopollenin
- 5. The micro consumers are commonly called \_\_\_\_\_
  - A) Autotrophs B) Herbivores
  - C) Decomposers D) Carnivores
- 6. The CORRECT sequence of events during double fertilization in Angiosperms is
  - A) Triple fusion, syngamy, porogamy
  - B) Syngamy, triple fusion, porogamy
  - C) Porogamy, syngamy, triple fusion
  - D) Syngamy, porogamy, triple fusion
- 7. When genomic DNA is fragmented and cloned, the screening of the desired gene is done by using
  - A) Plasmid DNA B) DNA probes
  - C) Southern blotting D) PCR technique
- 8. The guano deposits are obtained from the excreta of \_\_\_\_\_
  - A) Reptiles B) Human
  - C) Marine birds D) Micro-organisms

9. In an angiosperm a female plant having 2n = 24 is crossed with a male plant having 2n = 12. What will be the chromosome number of the endosperm ?
A) 12
B) 18

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C) 24 D) 30

## 10. Two alternative forms of a gene or alleles are located on \_\_\_\_\_

- A) Identical loci of the same chromosome
- B) Non-identical loci of the same chromosome
- C) Identical loci of homologous chromosomes
- D) Non-identical loci of homologous chromosomes
- 11. Which of the following is a character of Castor plant to avoid autogamy ?
  - A) Unisexuality B) Protogyny
  - C) Protandry D) Heterostyly
- 12. During hybridization offsprings with hybrid vigour superior to both parents are self pollinated for few successive generations to \_\_\_\_\_
  - A) retain their parental characters B) remove their parental characters
  - C) get homozygosity D) segregate characters
- 13. Which of the following is the <u>WRONG</u> match between the plant and its character for adaptation of cross pollination ?
  - A) <u>Zostera</u>  $\rightarrow$  Bright coloured flowers with nectar
  - B) <u>Bougainvillea</u>  $\rightarrow$  Petaloid bracts
  - C) Passion flower  $\rightarrow$  Corona
  - D) <u>Adansonia</u>  $\rightarrow$  Copious nectar
- 14. What is the outbreeding device, where the stamens and carpels mature at different times called ?
  - A) Monoecy B) Self sterility
  - C) Dichogamy D) Heterostyly
- 15. In anaerobic respiration acetaldehyde is reduced to form alcohol by utilising NADH<sub>2</sub> obtained from \_\_\_\_\_
  - A) Glycolysis B) Terminal oxidation
  - C) Kreb's cycle D) Acetylation
- 16. Which of the following wall layer of anther shows fibrous thickenings of callose ?
  - A) Epidermis B) Tapetum
  - C) Middle layer D) Endothecium

17. Photosynthesis is considered as an oxidation reaction because \_\_\_\_\_

- A)  $CO_2$  is oxidisedB)  $H_2O$  is oxidisedC)  $O_2$  is releasedD)  $CH_2O$  is oxidised
- 18. Which one of the following is the <u>CORRECT</u> order of conversion of waste materials during biogas formation ?
  - A) Monomers  $\rightarrow$  polymers  $\rightarrow$  methane  $\rightarrow$  organic acids
  - B) Organic acids  $\rightarrow$  methane  $\rightarrow$  polymers  $\rightarrow$  monomers
  - C) Methane  $\rightarrow$  organic acids  $\rightarrow$  polymers  $\rightarrow$  monomers
  - D) Polymers  $\rightarrow$  monomers  $\rightarrow$  organic acids  $\rightarrow$  methane

19. Match the plant and the part in relation to Vegetative Propagation.

a) Eyes
b) Runner
c) Fasciculated tuberous roots
d) Epiphyllous buds
B) $(1) - d$ , $(2) - a$ , $(3) - b$ , $(4) - c$
D) $(1) - b, (2) - c, (3) - a, (4) - d$

20. Agrobacterium tumefaciens is most widely used for gene transfer because

- A) it causes crown gall tumours
- B) of its ability to insert Ti plasmid into nuclear genome
- C) it can grow anywhere
- D) it has ability to kill pathogenic bacteria
- 21. Remarkable increase in rice production from 35 million tones to 89.5 million tones during 1960 2000 was mainly due to \_\_\_\_\_
  - A) Improved semidwarf varieties
  - B) Introduction of Golden rice
  - C) Increased use of chemical fertilizers
  - D) Cultivation of wild varieties
- 22. Which of the following is the first cell of female gametophytic generation in Angiosperms ?
  - A) Megaspore mother cell
- B) Microspore mother cell
- C) Functional megaspore
- D) Egg cell

23. During dihybrid cross, in the  $F_2$  generation, the ratio of individuals showing one dominant and the other recessive character will be \_\_\_\_\_\_ of parents with contrasting characters.

A) 
$$\frac{4}{16}$$
  
C)  $\frac{8}{16}$   
B)  $\frac{6}{16}$   
D)  $\frac{9}{16}$ 

- 24. In an ecological succession the pioneers are generally \_\_\_\_\_
  - A) Autotrophs B) Carnivores
  - C) Herbivores D) Detrivores

# 25. Given below are some antibiotics and their microbial source. Match the correct pairs.

1) Chloromycetin	a) <u>Streptomyces</u> <u>griseus</u>
2) Erythromycin	b) <u>Penicillium</u> <u>chrysogenum</u>
3) Penicillin	c) <u>Streptomyces</u> <u>erythreus</u>
4) Streptomycin	d) <u>Streptomyces</u> <u>venezuelae</u>
A) $1-a$ , $2-b$ , $3-c$ , $4-d$	B) $1 - d$ , $2 - c$ , $3 - b$ , $4 - a$
C) $1 - b$ , $2 - d$ , $3 - a$ , $4 - c$	D) $1 - c$ , $2 - a$ , $3 - d$ , $4 - b$

26. In Kreb's cycle Guanosine Triphosphate is formed during the conversion of

- A) Isocitrate to oxalosuccinate B) Oxalosuccinate to  $\alpha$ -ketoglutarate
  - C) Succinyl CoA to succinate D) Fumarate to malate
- 27. Mycorrhiza is \_\_\_\_\_
  - A) AlgaB) FungusC) BacteriaD) Virus

28. During PCR technique, the pairing of primers to ssDNA segment is called \_\_\_\_\_

- A) Denaturation B) Annealing
- C) Polymerisation D) Isolation

29. \_\_\_\_\_ is the most convenient and cheap method of artificial vegetative propagation.

- A) Grafting B) Budding
- C) Cutting D) Micropropogation

30. Glycosidic bond exists in DNA molecule between \_\_\_\_\_

- A) Sugar and phosphate B) Any two nitrogen bases
- C) Sugar and nitrogen base D) Purines and pyrimidines

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31.	In plasmid pBR 322, 'BR' stands for A) Baculovirus and Retrovirus C) Bolivar and Rodrigues	B) Boyer and Reed	
32.	How many glucose molecules are reacid molecules at the end of glycoly A) 52 C) 32	equired for the formation of 52 pyruvic sis ? B) 46 D) 26	
33.	The pitch angle of deflection betwee double helix is A) 20° C) 36°	n two successive base pairs in DNA B) 34° D) 360°	
34.	<ul><li>Which one of the following processe involved in wine production ?</li><li>A) Malting</li><li>C) Fermentation</li></ul>	s involved in alcohol production is <u>NOT</u> B) Mashing D) Distillation	
35.	<ul><li>Which one of the following is formed</li><li>A) NADPH<sub>2</sub></li><li>C) ATP</li></ul>	as a result of cyclic photophosphorylation (B) O <sub>2</sub> D) H <sub>2</sub> O	?
36.	What will be the genotype of parents A) $I^A I^A \times I^A I^A$ C) $I^A I^A \times I^B I^B$	s of a child with 'O' blood group ? B) I <sup>B</sup> I <sup>B</sup> × I <sup>B</sup> I <sup>B</sup> D) I <sup>A</sup> i × I <sup>B</sup> i	
37.	In Angiosperms, megaspores formed are arranged in A) Isobilateral tetrad C) Tetrahedral tetrad	<ul><li>after meiosis of megaspore mother cell</li><li>B) Linear tetrad</li><li>D) T-shaped tetrad</li></ul>	
38.	During replication of DNA, the two from each other under the influence A) rep-protein C) initiator protein	strands of the double helix are separated of enzyme B) SSBP D) DNA polymerase	
39.	<ul> <li>39. Identify the <u>INCORRECT</u> statement from the following with reference to lac operon.</li> <li>A) It is a unit of gene expression and regulation for lactose sugar metabolism in <i>E. Coli</i>.</li> <li>B) Lactose sugar enters the cell due to the activity of enzyme permease.</li> <li>C) Operators are present between promoters and structural genes.</li> <li>D) The structural gene 'z' codes for β-galactosidase, 'y' for transacetylase and 'a' for permease.</li> </ul>		

- A) Aphids B) Jassids
- C) Boll worms D) Stem borers
- 41. Which of the following event does NOT lead into secondary succession ?
  - A) All organisms that existed are lost
  - B) Where no living organisms ever existed
  - C) Abandoned crop field
  - D) Land affected by flood

42. A nucleosome along with linker DNA consists of \_\_\_\_\_\_

- A) eight molecules of histones and 146 base pairs
- B) eight molecules of histones and 200 base pairs
- C) nine molecules of histones and 146 base pairs
- D) nine molecules of histones and 200 base pairs
- 43. During aerobic respiration the final electron acceptor is
  - A) Cyto bB) NADH2C) WaterD) Oxygen

44. In quantitative inheritance, when a character is controlled by two pairs of genes, the ratio obtained in  $F_2$  generation is \_\_\_\_\_

A) 1:2:1	B) 1:4:6:4:1
C) 9:3:3:1	D) 1:6:15:20:15:6:1

45. Which one of the following pigment functions as a reaction center in photosynthesis ?

A) Chlorophy <i>ll</i> -a	B) Xanthophyll
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- C) Carotenoid D) Anthocyanin
- 46. The common feature in CAM and C<sub>4</sub> plants is \_\_\_\_\_
  - A) Stomata open only during night
  - B) Acid concentration increases during night
  - C) Both  $C_3$  and  $C_4$  pathway occur
  - D) Having Kranz anatomy
- 47. Which one of the following electron acceptor is present in respiratory chain ?
  - A) Cytochrome f B) Cytochrome a<sub>3</sub>
  - C) Plastocyanin D) Ferredoxin

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D) AUG GUG AGC UAC GCG

- 49. A cross between two pea plants tall with axial flowers and dwarf with terminal flowers produced offsprings tall with axial flowers and tall with terminal
  - flowers in the ratio 1 : 1. What will be the genotype of parents ? A) TTAa × ttaa B) TtAa × ttaa
  - C) TtAA  $\times$  ttaa D) TTAA  $\times$  ttaa
- 50. Which one of the following is used by green sulphur bacteria for reduction of  $CO_2$  to  $CH_2O$ ?

A) H <sub>2</sub> S	B) H <sub>2</sub> O
C) CH <sub>4</sub>	D) NH <sub>4</sub>

C) TAC CAC TGC ATG CGC

- 51. Asexual reproduction through formation of gemmule occurs in
  - A) AscidianB) HydraC) PlanariaD) Spongilla

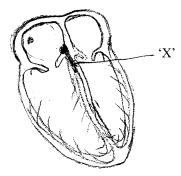
52. The marsupial mammal amongst the following animals is

- A) GibbonB) KangarooC) LemurD) Spiny ant-eater
- 53. When white eyed and miniature winged <u>*Drosophila melanogaster*</u> is crossed with its wild type, it produces following percent of recombinants.
  - A) 1.3%B) 37.2%C) 62.8%D) 98.7%
- 54. Asiatic wild ass is an example ofA) Endangered speciesB) Extinct species
  - C) Rare species D) Vulnerable species
- 55. The quantitative and statistical study of human population is
  - A) CalligraphyB) Demography
  - C) Topography D) Seismography
- 56. Linkage groups can be separated during \_\_\_\_\_ in meiosis.
  - A) Crossing over B) Synapsis
  - C) Tetrad formation D) Terminalization

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57.	One of the most polluted river in M	aharashtra is	
	A) Brahmaputra	B) Ganga	
	C) Jamuna	D) Panchaganga	
58.	Hypercalcemic hormone is		
	A) Aldosterone	B) Calcitriol	
	C) PTH	D) TCT	
59.	An oral contraceptive pill checks		
	A) Fertilization	B) Implantation	
	C) Infection	D) Ovulation	
60.	AB blood group was discovered by		
	A) Decastello and Sturli	B) Karl Landsteiner	
	C) William Harvey	D) Wallace Alfred	
61.	Cystic fibrosis can be treated by	in gene therapy.	
	A) TGF-B	B) TPA	
	C) DNase	D) BGH	
62.	<ul> <li>ADH carries out following functions</li> <li>A) Increases blood pressure</li> <li>B) Increases glomerular filtrate rate</li> <li>C) Increases permeability for water</li> <li>D) Increases Na<sup>+</sup> excretion</li> </ul>	2	
63.	Which of the following are <u>NOT</u> pro-	oduced as transgenic animals?	
	A) Sheep and Pig	B) Rat and Rabbit	
	C) Dog and Banded Krait	D) Cow and Fish	
64.	Temporal lobe of cerebrum is con sensations <u>EXCEPT</u>	cerned with the detection of follo	wing
	A) Hearing	B) Pressure	
	C) Smell	D) Taste	
65.	The sterilization procedure in huma	n female is	
	A) Coitus interruptus	B) Rhythm method	
	C) Tubectomy	D) Vasectomy	
66.	The process by which primary germ	inal layers are formed is called	
	A) Blastulation	B) Cleavage	
	C) Gastrulation	D) Implantation	
	,	/ <b>I</b>	

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<ul> <li>67. Select the group of animals adapted for ammonotelism, guanotelism and ureotelism respectively from the following</li> <li>A) Tadpole larva of frog, spider, pigeon</li> <li>B) Scorpion, turtle and labeo</li> <li>C) Catla, penguin and cat</li> <li>D) Cobra, cockroach and Bombay duck</li> </ul>				
68. Muscular ridges at inner	r surface of ventricle	es are called		
A) Chordae tendinae	B) Inte	er ventricular septum		
C) Papillary muscle	D) Tra	abeculae carnae		
<ul> <li>69. Which of the following is <u>NOT</u> a breed of buffalo ?</li> <li>A) Gir</li> <li>B) Nili</li> <li>C) Nagpuri</li> <li>D) Surti</li> </ul>				
70. Column A	Column B	Column C		
i) Coenozoic	2 – 65 mya	Origin of vertebrates		
ii) Palaeozoic	500 – 165 mya	Rise of egg laying mammals		
iii) Mesozoic	135 – 225 mya	Reptiles dominant		
iv) Proterozoic	350 – 500 mya	Trilobites dominant		
The correct match of Columns A, B and C is				
A) i	i B) ii			
$\sim$ ····				
C) iii	D) iv			

71. In the given diagram, the role of 'X' is to



- A) Generate cardiac impulse
- B) Cause atrial systole
- C) Cause ventricular diastole
- D) Carry cardiac impulse to ventricles

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- 72. A pair of hormones produced by kidneys is
  - A) Erythropoietin and relaxin
  - B) Erythropoietin and calcitriol
  - C) Calcitonin and relaxin
  - D) Calcitonin and calcitriol
- 73. Alec Jeffreys used \_\_\_\_\_\_ as genetic marker.
  - A) HUMULIN B) Radioactive probe
    - C) RFLP D) VNTR
- 74. Which constituent of seminal fluid helps in coagulation of semen after ejaculation ?
  - A) Fibrin B) Fibrinogen
  - **D)** Prostaglandins C) Fructose
- 75. Which one of the following statement is <u>CORRECT</u>?
  - A) Lysergic acid diethylamide is a depressant
  - B) Heroin is diacetylmorphine
  - C) Hashish has hallucinogenic property
  - D) Cocaine is opioid drug

76. Acromegaly is caused by hypersecretion of \_\_\_\_\_\_ in the adult.

- B) GH A) ACTH C) MSH D) TSH
- 77. Restriction endonuclease, in DNA finger printing, carries out following process.
  - A) Fragmentation of DNA B) Getting copies of DNA
  - C) Loading DNA on agaroseplate D) Synthesis of DNA
- 78. Which one of the following is <u>NOT</u> the symptom of malaria?
  - A) Arthralgia B) Fever
  - D) Shivering C) Dysentery
- 79. In ECG, P wave represents
  - A) Ventricular repolarization B) Ventricular depolarization
  - C) Atrial depolarisation
- - D) Atrial repolarization

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80. The isthmus which connects right and left lobes of thyroid gland is located from tracheal cartilages.			
A) $1^{\text{st}}$ to $3^{\text{rd}}$	B) $2^{nd}$ to $4^{th}$		
C) $5^{\text{th}}$ to $7^{\text{th}}$	D) $6^{\text{th}}$ to $8^{\text{th}}$		
81. Which of the following organisms and mapping technique ?	is <u>NOT</u> involved in genome sequencing		
A) <u>Drosophila</u> <u>melanogaster</u>	B) <u>E. Coli</u>		
C) <u>Mus musculus</u>	D) <u>Salmonella typhi</u>		
82. The most common chemical compo- were	unds formed in Urey-Miller's experiment		
A) Amino acids	B) Ammonia		
C) Methane	D) Vitamins		
<ul> <li>83. Select the <u>CORRECT</u> pair of endod</li> <li>A) Adrenal medulla – Dermis of ski</li> <li>B) Lungs – Thyroid gland</li> <li>C) Lymphatic vessel – Vagina</li> <li>D) Retina – Tonsil</li> </ul>			
84. Peacock shows following genotype			
A) XX	B) XY		
C) ZZ	D) ZW		
85. Incubation period of <i>Treponema Pa</i>	<i>llidum</i> is about		
A) 2 to 14 days	B) 7 to 21 days		
C) 1 to 2 weeks	D) 3 to 4 weeks		
<ul> <li>86. A pair of analogous organs is</li> <li>A) Wing of bird – flipper of whale</li> <li>B) Forelimbs of horse and man</li> <li>C) Wing of bird – forelimb of horse</li> <li>D) Wing of insect and wing of bird</li> </ul>	e		
87. In diploid set of chromosomes, dele	tion or addition of a member leads to		
A) Aneuploidy	B) Euploidy		
C) Polyploidy	D) Triploidy		

88. Select the correct match :

#### Ι

- i) Competition
- ii) Commensalism
- iii) Mutualism
- iv) Parasitism
- A) i d, ii c, iii b, iv a
- C) i c, ii b, iii d, iv a

- Π
- a) Tapeworm and man
- b) Lichen

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- c) Cattle egret and cattle
- d) Lions and Leopards
- B) i d, ii b, iii c, iv a
- D) i a, ii b, iii d, iv c

#### 89. Which one of the following statement is <u>CORRECT</u>?

- A) Fertilization in human takes place in womb
- B) Zygote contains haploid number of chromosomes
- C) Fertilization membrane avoids polyspermy
- D) Primary oocyte inhibits the process of oogenesis
- 90. Osmoreceptors are present in the
  - A) HypothalamusB) HypophysisC) E i l iE i l i
  - C) Epiphysis D) Epithalamus

91. Lac is used in the

- A) Production of guano B) Production of Isinglass
- C) Silvering mirrors D) Production of soaps

#### 92. Bacterial poultry diseases mainly include

- A) Avian influenza, Bronchitis, Ranikhet
- B) Enteritis, TB, CRD
- C) Favus, Thrush, Aspergillosis
- D) Bird Flu, Coccidiosis, Pullorum

#### 93. A change in a wart or mole on the skin is observed in

- A) Adenoma B) Carcinoma
- C) Lymphoma D) Melanoma
- 94. The spermatozoa not ejaculated are reabsorbed in the
  - A) Ejaculatory duct B) Urethra
  - C) Vas efferns D) Vas deferens
- 95. All of the following are ape-men stages in origin of man EXCEPT
  - A) <u>Ramapithecus</u>B) <u>Kenyapithecus</u>
  - C) <u>Dryopithecus</u> D) <u>Australopithecus</u>

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96. The interaction observed in this diagram is



- A) Commensalism
- C) Mutualism

- B) Competition
- D) Predation
- 97. Select the correct match :

Ι	II	III	
i) Monocyte	a) Large round nucleus	l) Antihistamine property	
ii) Lymphocyte	b) Twisted nucleus	m) Release heparin	
iii) Basophil	c) Bilobed nucleus	n) Phagocytic	
iv) Eosinophil d) Kidney shaped nucleus o) Produce antibodies A) $i-d-n$ , $ii-a-o$ , $iii-b-m$ , $iv-c-l$ B) $i-b-m$ , $ii-a-l$ , $iii-c-n$ , $iv-d-o$ C) $i-c-n$ , $ii-b-o$ , $iii-d-m$ , $iv-a-l$ D) $i-a-o$ , $ii-d-m$ , $iii-c-l$ , $iv-b-n$			
<ul> <li>98. The parietal and temporal lobes are separated by</li> <li>A) Central sulcus</li> <li>B) Longitudinal fissure</li> <li>C) Lateral sulcus</li> <li>D) Parieto-occipital sulcus</li> </ul>			

# 99. The corpus callosum interconnects

- A) Cerebral hemispheres
- B) Cerebellar hemispheres
- C) Corpora quadrigemina
- D) Crura Cerebri

100. The parotid salivary glands are innervated by branches of \_\_\_\_\_\_ nerve.

- A) Vagus B) Spinal accessory
- C) Facial D) Glossopharyngeal

# SPACE FOR ROUGH WORK

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