

Objective  
Paper Code  
**6465**

Intermediate Part First (New Scheme)  
**BIOLOGY (Objective) GROUP - I**  
Time: 20 Minutes Marks: 17

Roll No. : \_\_\_\_\_



**Q.No.1** You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

S.#	Questions	A	B	C	D
1	Histamine is produced by:	Neutrophils	Eosinophils	Basophils	Monocytes
2	Single circuit heart is found in:	Amphibians	Fishes	Reptiles	Mammals
3	Spiracles are found in:	Hydra	Cockroach	Birds	Fishes
4	Which is fluid feeder?	Aphid	Earthworm	Sheep	Man
5	Most abundant protein on earth is:	Rubisco	Haemoglobin	Albumen	Fibrinogen
6	Haem portion of haemoglobin contains:	Mg <sup>++</sup>	Fe <sup>++</sup>	Ca <sup>++</sup>	N
7	Garden snail belongs to:	Gastropoda	Cephalopoda	Pelecypoda	Arthropoda
8	Fresh water sponge is:	Sycon	Leucosolenia	Spongilla	Euplectella
9	Polytrichum is a:	Club moss	Moss	Liverwort	Hornwort
10	They are ecologically important as bioindicators of air pollution:	Lichens	Mycorrhizae	Yeast	Viruses
11	Tests of actinopods are made up of:	Calcium	Silica	Sodium	Potassium
12	Bacteria without any flagella are called:	Peritrichous	Monotrichous	Lophotrichous	Atrichous
13	Organelle of symbiotic origin is:	Cell wall	Cell membrane	Mitochondria	Vacuole
14	Resolution of electron microscope ranges between:	1 - 2 $\mu$ m	1 - 5 nm	1 - 3 Angstrom	2 - 4 Angstrom
15	Co-enzyme is closely related to:	Lipids	Minerals	Vitamins	Water
16	Human tissues have 85% water in cells of:	Blood	Liver	Bone	Brain
17	The number and variety of species in a place is called:	Population	Community	Diversity	Biodiversity

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Intermediate Part First (New Scheme)  
**BIOLOGY ( Subjective ) GROUP - I**  
Time: 02:40 Hours      Marks: 68

Roll No. \_\_\_\_\_

**SECTION – I**

2. Write short answers to any EIGHT parts. 16
- (i) Define protective role of water.
  - (ii) What are inhibitors? Give one example.
  - (iii) Differentiate between pepsin and pepsinogen.
  - (iv) What are reversible inhibitors?
  - (v) Write resemblances of fungi with plants.
  - (vi) What are rust and smut diseases of plants?
  - (vii) Define protandrous animals.
  - (viii) Differentiate between parazoa and cemetazoa.
  - (ix) What is the commercial importance of sponges?
  - (x) Name three classes of phylum Annelida.
  - (xi) What is the role of antenna complex in photosynthesis?
  - (xii) Give the function of spectrophotometer.
3. Write short answers to any EIGHT parts. 16
- (i) What is hydroponic culture technique? Give its possible applications.
  - (ii) Define hypothesis.
  - (iii) Give salient features of cell theory.
  - (iv) Write four important functions of endoplasmic reticulum.
  - (v) What are kelps?
  - (vi) Give the importance of physarum polycephalum.
  - (vii) What are choanoflagellates? How are they related to sponges?
  - (viii) Give four general characters of algae.
  - (ix) What is meant by arthropod?
  - (x) What are paraphyses and protonema?
  - (xi) Define plasmolysis and deplasmolysis.
  - (xii) Define immunity.
4. Write short answers to any SIX parts. 12
- (i) What are prions?
  - (ii) What is mesosome?
  - (iii) What is assimilation?
  - (iv) Define nutrition.
  - (v) What is botulism?
  - (vi) Define photorespiration.
  - (vii) What is operculum?
  - (viii) What are parabronchi?
  - (ix) What is asthma?

**SECTION – II**      Attempt any THREE questions. Each question carries 08 marks.

5. (a) Give a detailed account of cloning. 04  
(b) Discuss cardiac cycle in detail. 04
6. (a) What are carbohydrates? Give details of monosaccharides with suitable structural illustrations. 04  
(b) Describe economic gains due to fungi. 04
7. (a) Give use and misuse of antibiotics. 04  
(b) Discuss the life cycle of an angiospermic plant. 04
8. (a) Give detail of life cycle of bacteriophage with diagram. 04  
(b) Explain non-cyclic phosphorylation along with diagram. 04
9. (a) Give structure and function of mitochondria. 04  
(b) Write notes on (i) Anorexia nervosa (ii) Bulimia nervosa 04

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