

BIOLOGY (Subjective) GROUP - I

Time: 02:40 Hours Marks: 68

SECTION - I**2. Write short answers to any EIGHT parts.**

16

- (i) Define peptide and polypeptide bond.
- (ii) Define apoenzyme and holoenzyme.
- (iii) Differentiate between binding and catalytic site of enzyme.
- (iv) What do you mean by induce fit model? Who proposed it?
- (v) Write the ecological importance of fungi.
- (vi) Define spore and conidia.
- (vii) Write about Hookworm and pinworm.
- (viii) Differentiate between acoelomate and coelomate.
- (ix) Write about some affinities which echinoderms show with hemichordata.
- (x) Differentiate between ostia and osculum.
- (xi) What is the source of oxygen during photosynthesis?
- (xii) Define carotenoids. How they are helpful in photosynthesis?

3. Write short answers to any EIGHT parts.

16

- (i) Differentiate between physiology and morphology.
- (ii) Differentiate between freshwater Biology and marine Biology briefly.
- (iii) What are Golgi apparatus? Give its function.
- (iv) What are cristae and polysome?
- (v) Write two differences between fungi and oomycetes.
- (vi) What are kelps? Give their importance.
- (vii) Write the importance of algae.
- (viii) Give two examples of unicellular green algae.
- (ix) Differentiate between microphyll and megaphyll.
- (x) What is alternation of generations? How it is important for plant life?
- (xi) Differentiate between diffusion and osmosis.
- (xii) What are lymph nodes? What is their function?

4. Write short answers to any SIX parts.

12

- (i) Differentiate between mumps and measles.
- (ii) Define Pilli. Also give its function.
- (iii) What is trypsin?
- (iv) What is saprophytic nutrition?
- (v) Differentiate between villi and microvilli.
- (vi) Define lung capacities.
- (vii) What is myoglobin?
- (viii) Define tuberculosis.
- (ix) How pH affects haemoglobin to combine with oxygen?

SECTION - II Attempt any THREE questions. Each question carries 08 marks.**5. (a) Write a note on biological method.**

04

(b) Discuss any eight functions of blood.

04

6. (a) Discuss in detail primary structure of proteins.

04

(b) Write a note on animal diseases caused by fungi.

04

7. (a) Discuss growth and reproduction in bacteria.

04

(b) Describe evolution of seed in plant.

04

8. (a) Describe the life cycle of bacteriophage.

04

(b) Make a sketch of non-cyclic phosphorylation.

04

9. (a) What are lysosomes? Give their importance with special emphasis on Tay-Sach's disease.

04

(b) Give the role of stomach in digestion of food.

04