

BIOLOGY (Subjective) GROUP - II

Time: 02:40 Hours

Marks: 68

SECTION – I

2. Write short answers to any **EIGHT** parts. 16
- Write briefly the protective function of water.
 - Differentiate between coenzyme and prosthetic group.
 - Define inhibitors. Give an example.
 - What is induced fit model of enzyme action?
 - Differentiate between spore and conidia.
 - What are predator fungi? Give an example.
 - Differentiate between radial and bilateral symmetry.
 - What are parabronchi? Write their function.
 - What are nematocysts? Give their function.
 - What is placenta and its role?
 - Why Calvin cycle is also called as C_3 pathway.
 - Define chemiosmosis.
3. Write short answers to any **EIGHT** parts. 16
- Define embryology.
 - What is biotechnology?
 - What is unit membrane model of cell membrane?
 - What is primary cell wall? Give its chemical composition.
 - Define kingdom Protista.
 - How zooflagellates obtain their food?
 - Give two examples of brown algae.
 - What is chlorella? Where it is found?
 - What is alternation of generation?
 - What is double fertilization?
 - What are plasmodesmata?
 - Define transpiration.
4. Write short answers to any **SIX** parts. 12
- Give biological classification of corn.
 - Write four phases in bacterial growth curve.
 - Distinguish between saprophytic and parasitic nutrition.
 - Name various types of salivary glands and give ingredients of saliva.
 - Differentiate between Diarrhoea and Constipation.
 - What is Asthma? Give its effects.
 - Differentiate between haemoglobin and myoglobin.
 - Give composition of inhaled and exhaled air.
 - Give two factors which affect capacity of haemoglobin to combine with oxygen.

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

5. (a) Write note on protection and conservation of environment. 04
 (b) Write any eight functions of blood. 04
6. (a) Write a note on carbohydrates. 04
 (b) Discuss two mutualistic symbiotic associations of fungi. 04
7. (a) Describe physical and chemical methods to control micro-organisms. 04
 (b) Describe different adaptations of bryophytes to land habitat. 04
8. (a) Write a note on life cycle of AIDS. 04
 (b) Write non-cyclic phosphorylation. 04
9. (a) Write a note on plastids. 04
 (b) Discuss nutrition in insectivorous plants. 04