

BIOLOGY (Subjective) GROUP - II

Time: 02:40 Hours

Marks: 68

SECTION – I

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2. Write short answers to any EIGHT parts.

- (i) Why cellulose is digested in herbivores but not in humans?
- (ii) Why pepsin is secreted in form of pepsinogen?
- (iii) Name an enzyme which act in acidic medium and also give its pH.
- (iv) Why inorganic ions cannot be used as co-enzyme?
- (v) Differentiate between ectomycorrhizae and endomycorrhizae.
- (vi) What are predator fungi? Give an example.
- (vii) Differentiate between diploblastic and triploblastic organisms.
- (viii) How coral reefs are formed?
- (ix) Write two adaptations of parasites for parasitic mode of life.
- (x) Write two harmful effects of insects.
- (xi) Write the molecular formulas of chlorophyll a and b.
- (xii) What is lactic acid fermentation? Also write its equation.

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3. Write short answers to any EIGHT parts.

- (i) What is hydroponic culture technique? Give its uses.
- (ii) How and when a hypothesis becomes a theory?
- (iii) Do you know about the body in the nucleus which is stained dark?
- (iv) Can you compare the process of pinocytosis with phagocytosis?
- (v) How the pathogen of malaria completes its life cycle?
- (vi) Can you give economic importance of algae?
- (vii) Which type of pigments are present in algae?
- (viii) Give two characteristics of red algae.
- (ix) What is protonema? In which group of bryophyte it is produced?
- (x) Give four examples of ferns.
- (xi) What is pressure potential?
- (xii) Define active immunity.

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4. Write short answers to any SIX parts.

- (i) What is provirus?
- (ii) Differentiate between prokaryotic and eukaryotic cytoplasm.
- (iii) What is dyspepsia? Give its two symptoms.
- (iv) What is appendicitis?
- (v) Define peristalsis.
- (vi) What are vocal cords?
- (vii) Why is respiration important to living organisms?
- (viii) Why myoglobin is termed as muscle haemoglobin?
- (ix) Why most of the cetaceans have high concentration of myoglobin in muscles?

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

5. (a) How can we protect ourselves from the incurable diseases? 04
(b) What is transpiration? Explain the stomatal transpiration. 04
6. (a) Write a note on primary and secondary structure of proteins. 04
(b) Give economic losses due to fungi. 02,02
7. (a) There is diversity in respiration of bacteria. Prove it. Give examples. 02,02
(b) To, what does alternation of generations refer in plants (Bryophytes)? How it is significant? 01,03
8. (a) Define viruses and describe their characteristics. 04
(b) Discuss Krebs cycle with sketch in detail. 04
9. (a) Differentiate between prokaryotic and eukaryotic cells. 04
(b) Write a note on absorption of food in ileum of human. 04