

Note: Section-I is compulsory. Attempt any three (3) questions from Section-II.

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SECTION - I

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2. Write short answers to any EIGHT questions.

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- How is carbon necessary for life?
- Differentiate between apoenzyme and holoenzyme.
- Explain effects of substrate at activity of an enzyme.
- Why human beings die by eating of poisons or drugs?
- What is parasexuality?
- Explain aflatoxins.
- What is coelom?
- What is the importance of nematocysts in coelenterates?
- Differentiate between acrania and craniata.
- Distinguish between anamniotes and amniotes.
- Write down the molecular formulae for chlorophyll (a) and chlorophyll (b).
- How do cytochrome enzymes play role in energy production?

3. Write short answers to any EIGHT questions.

(2 x 8 = 16)

- Differentiate between parasitology and microbiology.
- How some diseases of plants can be controlled by bacteria?
- Differentiate chromoplast from leucoplast.
- How the body cells are protected from invading organisms or foreign particles?
- Write down two mechanisms.
- What do you know about parasitic zooflagellates?
- Write down a few lines on dinoflagellates.
- How phytophthora infestans ruined Ireland?
- How algae is different from plants? Write down two characters.
- Differentiate microphyll from megaphyll.
- How family Poaceae is economically very important to us? Give two reasons.
- What is facilitated diffusion?
- What is role of Casparian strips in roots of plants?

4. Write short answers to any SIX questions.

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- What are pocks?
- Differentiate between A-trichous and peri-trichous bacteria.
- Write down two functions of large intestine.
- What are nematocyst?
- How intracellular digestion differs from extra cellular digestion?
- Enlist organelles involved in photorespiration.
- How inspiration occurs in man?
- pH of blood influences the degree to which Oxygen binds to haemoglobin. Comment it.
- What is tuberculosis?

SECTION - II

5. (a) Describe the role of biology to control the diseases by preventive measures.

(4)

(b) Discuss the different types of immunity.

(4)

6. (a) Define RNA, describe its various types.

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(4)

(b) Write down characteristics of Basidiomycota.

(4)

7. (a) Write down importance of bacteria.

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(b) How leaf evolved in early vascular plants?

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(4)

8. (a) Give an account of glycolysis and sketch it.

(4)

(b) Describe the structure of Bacteriophage with diagram.

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(4)

9. (a) Write down a detailed note on functions of cell membrane.

(4)

(b) How digestion takes place in stomach? Explain it.

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