

SECTION – I

- 2. Write short answers to any EIGHT (8) questions :** 16
- Differentiate between fibrous and globular proteins.
 - How does Lock and Key model of enzymes differ from induce fit model of enzymes?
 - Explain effects of PH at the activity of enzymes.
 - Distinguish between irreversible and reversible inhibitors.
 - What do you know about active predators fungi?
 - Differentiate between rusts and smuts.
 - How does corals differ from coral reefs?
 - Write zoological names of any two parasites belong to aschelminthes.
 - Write any four characteristics of class cyclostomata.
 - Why varanope is important in mammals?
 - Define bioenergetics.
 - What is the role of RUBP for plants?
- 3. Write short answers to any EIGHT (8) questions :** 16
- Differentiate tissue and organ level.
 - What is the effective control of a disastrous disease, write shortly?
 - Define fluid mosaic model of cell membrane.
 - What are ribonucleo-proteins? What are their functions?
 - How choanoflagellates differ from trichonymphas?
 - Why the ciliates have two nuclei?
 - How phylum rhodophyta is unique from the other groups of algae?
 - Write a short note on amoebas.
 - Differentiate class gymnospermae from angiospermae.
 - What are arthropytes? Write down the name of one living organism.
 - What is the result of uncontrolled growth of white blood cells?
 - Define the term guttation.
- 4. Write short answers to any SIX (6) questions :** 12
- HIV is host specific. Give reason.
 - What are plasmids?
 - What are gastric glands?
 - Differentiate between appendix and appendicitis.
 - How tripsinogen is activated?
 - Compare composition of inhaled and exhaled air.
 - How diving mammals differ from non divers?
 - What is asthma?
 - Differentiate between pleura and diaphragm.

SECTION – II

Note : Attempt any THREE questions.

- Describe the conservation and protection of environment. 4
 - In what way transpiration is evil or beneficial for plants. 4
- What are oligosaccharides? Give example. 4
 - Describe land adaptation of fungi. 4
- How many groups of bacteria are present in nature on the basis of shape of bacteria? 4
 - Describe life cycle of pinus. 4
- Write a detailed note on Hepatitis, causes and different types. 4
 - What is oxidative phosphorylation? Explain respiratory ETC. 4
- Write a note on golgi apparatus. 4
 - Describe digestion in oral cavity in man. 4