

Time: 2:40 Hours

SUBJECTIVE

Marks: 68

Note: Section I is compulsory. Attempt any THREE (3) questions from Section II.**(SECTION – I)****2. Write short answers to any EIGHT questions.****(2 x 8 = 16)**

- i - Define a peptide bond and how it is formed?
- ii - Differentiate between apoenzyme and holoenzyme.
- iii - What is a co-factor? Give its significance.
- iv - Give four characteristics of enzymes.
- v - How fungi differ from animals?
- vi - Write down a short note on omnivorous fungi.
- vii - Write down two differences between protostomes and deuterostomes along with examples.
- viii - Give asexual reproduction in sponges.
- ix - What are polyps and medusae?
- x - Give four characteristics of bony fishes.
- xi - How dark reaction can be summarized in an equation?
- xii - Differentiate between chlorophyll-a and chlorophyll-b.

3. Write short answers to any EIGHT questions.**(2 x 8 = 16)**

- i - Differentiate between fresh water and marine water biology.
- ii - What is theory? Write down properties of a good theory.
- iii - What is primary wall? Give its chemical composition.
- iv - Differentiate between chromoplast and leucoplast.
- v - Define thallus.
- vi - Give two characteristics of Euglenoids.
- vii - Mention structural features of red algae.
- viii - Write down four importance of algae.
- ix - Name floral leaves of a flower along with their functions.
- x - What is double fertilization?
- xi - Define hypertension and its cause.
- xii - Write down two functions of lymphatic system.

4. Write short answers to any SIX questions.**(2 x 6 = 12)**

- i - Write down any four characteristic features of viruses.
- ii - Write down about spiral shaped bacteria. Give all its three forms.
- iii - How trapping and digestion of insects occur in sundew?
- iv - What is dyspepsia?
- v - Define saprophytic nutrition.
- vi - How expiration occurs in human?
- vii - What is lung cancer?
- viii - How pH affects the capacity of haemoglobin to combine with oxygen?
- ix - Give composition of breathed air in man.

(SECTION – II)**5. (a) Write down a note on “protection and conservation of environment”.****(4)****(b) Enlist different functions that blood performs in human body.****(4)****6. (a) Write down a note on nucleic acids.****(4)****(b) Describe in detail basidiomycota.****(4)****7. (a) Discuss control of bacteria by physical and chemical methods.****(4)****(b) Write down a note on evolution of leaf.****(4)****8. (a) Describe life cycle of bacteriophage.****(4)****(b) Write down a note on photosystems.****(4)****9. (a) Describe the structure and function of mitochondria.****(4)****(b) Write down food absorption in small intestine of man.****(4)**