

SECTION – I

Write short answers to any EIGHT (8) questions :

16

- What are conjugated compounds?
- Differentiate between prosthetic group and coenzyme.
- How enzyme substrate complex is formed?
- If more enzymes are added in a system its rate of reaction remain unchanged, why?
- Define rust. Give example.
- What are symptoms of ergotism?
- Differentiate between enterocoelous and schizocoelous feature.
- What is blastostyle?
- How madrepora is important?
- Write similarities of birds and reptiles.
- Draw action spectrum showing photosynthesis rate at various light colours.
- Differentiate between chlorophyll – a and chlorophyll – b.

Write short answers to any EIGHT (8) questions :

16

- Define biotechnology.
- What is deductive reasoning?
- What is magnification?
- Describe salient features of cell theory.
- What is thromboembolism?
- What is systemic circulation?
- How green algae and plants are identical?
- What are trichonymphs?
- Write two characteristics of dinoflagellates.
- What are the basis of diversity in protista?
- What is protonema?
- What are integuments?

Write short answers to any SIX (6) questions :

12

- Give disadvantages of common names.
- Name different types of bacteria on the basis of flagella presence.
- Enlist various functions of oral cavity.
- What is peristalsis and antiperistalsis?
- Tubular digestive system is more efficient than sac like digestive system. Give reasons.
- Why ventilation in water is far more difficult than air?
- Write down the causes of asthma.
- What happens when diving reflex is activated?
- Briefly describe tuberculosis.

SECTION – II

Note : Attempt any THREE questions.

- Write a note on protection and conservation of environment.
- Give any eight functions of blood.
- What are polysaccharides? Discuss starch and glycogen in detail.
- Describe, giving examples, different ways in which fungi are useful to human.
- Describe characteristics of cyanobacteria.
- What adaptation made bryophytes able to live on land?
- Describe lytic cycle of bacteriophage.
- Write note on Calvin Cycle.
- Define plastids. Discuss structure and function of chloroplast.
- Discuss the process of absorption of food in small intestine.