

Exam. Code : 107401

Subject Code : 2229

B.Sc. Biotechnology 1st Semester

ZOOLOGY-A

Paper-BT-1

Time Allowed—3 Hours]

[Maximum Marks—40

Note : Section A is compulsory. Attempt any **FIVE** questions from Section B and any **TWO** questions from Section C.

SECTION-A

Write in short about :

1. Role of bile in digestion of fats
2. Digestive enzymes products by exocrine tissue of pancreas
3. Homeostasis
4. Role of lymph in circulatory system
5. Alveolar air
6. Vital capacity of lungs
7. Dermis
8. Functions of skin. 1×8=8

SECTION-B

9. Explain the process of digestion of lipids.
10. Write a note on symbiotic digestion.

11. What is cardiac output and discuss the factors controlling it ?
12. Write a note on mechanism of blood clotting.
13. Briefly explain the chloride shift.
14. Give an account of types and phases of respiration.
15. Discuss the structure of horns in mammals.
16. Describe the microscopic structure of mammalian skin.

4×5=20

SECTION-C

17. Describe in detail the structure and types of teeth in man. Also explain the dental formula.
18. Describe the origin and regulation of heart beat in man.
19. Discuss in detail the mechanism of transport of oxygen.
20. Define integument and name the types of integumentary derivatives. Explain the structure of hair in mammals.

6×2=12