

Exam. Code : 107402
Subject Code : 1655

B.Sc. (Bio-Technology) 2nd Semester (Batch 2021-24)

ZOOLOGY-I

Paper : BTL-151

Time Allowed—3 Hours] [Maximum Marks—40

Note :— Attempt *five* questions in all, selecting at least **one** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. (a) Give classification and general characters of Phylum Arthropoda. 5
(b) Why insects are most successful group on earth ? 3
2. Give a detailed account of characteristics of various classes of Phylum Chordata along with examples. 8

SECTION—B

3. (a) Give a detailed account of chemical digestion of food that take place in small intestine. 5
(b) Write a note on hormonal control of digestion. 3

4. (a) What are the various factors that influence affinity of haemoglobin for oxygen ? 4
- (b) How is carbon dioxide transported in blood ? 4

SECTION—C

5. Give a detailed account of composition and functions of blood. 8
6. Explain the structure and function of mammalian kidney. 8

SECTION—D

7. (a) Discuss synaptic transmission at neuromuscular junction. 6
- (b) What is the role of calcium in muscle contraction ? 2
8. Explain the structure and function of pituitary gland. 8