

325102

January 2023

B.Sc. (Life Science) - Ist Semester

Animal Diversity (BLS-102)

Time: 3 Hours]

[Max. Marks. : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*
4. *Draw the diagrams wherever required.*

PART-A

1. (a) What do you understand by diffuse type of nervous system? (1.5)
- (b) Enlist the characters of annelidan class oligochaete.(1.5)
- (c) What kind of animals are included in the phylum Kinorhyncha? (1.5)
- (d) Draw the diagram of tracheal respiratory system of insects. (1.5)
- (e) Define vermicomposting. (1.5)

- (f) Give *three* examples of parental care in Amphibians. (1.5)
- (g) Name the different types of fangs found in snakes along with *one* example in each of them. (1.5)
- (h) State the economic importance of Mollusca. (1.5)
- (i) What are byssus apparatus? (1.5)
- (j) Name different types of cell found in poriferans. (1.5)

PART-B

2. (a) Explain the various types of canal system found in sponges. (10)
- (b) Discuss different types of metamorphosis found in insects. (5)
3. (a) Comment over body wall structure of Cnidarians. (10)
- (b) Briefly describe retrogressive metamorphosis in Urochordata. (5)
4. Elucidate the life cycle of *Fasciola hepatica* in detail. (15)
5. (a) Distinguish between Mollusca class monoplecophora and gastropoda. (5)
- (b) With the help of diagram distinguish between echinoderm larva branchiolaria and ophiopluteus. (10)

6. (a) Explain the various flight adaptations found in birds. (10)
- (b) Distinguish between Platyhelminthes class trematoda and cestoda. (5)
7. (a) Enlist the general characters of class Chondrichthyes and its upto orders, giving examples of each group. (10)
- (b) Explain the evolutionary origin of tetrapoda. (5)