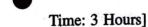
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Total Pages : 3

# 325102

## January 2023

B.Sc. (Life Science) - Ist Semester Animal Diversity (BLS-102)



[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)

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(f) Give three examples of parental care in Amphibians.

(1.5)

(1.5)

7.

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

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