

2024

ZOOLOGY

Paper : ZOOM010104 / ZOOL010104

(DIVERSITY OF NON-CORDATES)

Full Marks : 45

Time : 2 Hours

The figures in the margin indicate full marks for the questions

1. Answer the following questions : 1x5=5
- a) Amoeba is included in the class -
 - i) Filosa
 - ii) Lobosa
 - iii) Zoomastigophora
 - iv) Granuloreticulosa
 - b) Torsion phenomenon is found in the class of Mollusca :
 - i) Scaphopoda
 - ii) Cephalopoda
 - iii) Gastropoda
 - iv) Bivalvia
 - c) Water enters the body of sponge through _____
 - d) The disease caused by *Wuchereria bancrofti* is known as _____ .
 - e) Larval form of Cnidaria is _____
2. Answer the following questions (any five) : 2x5=10
- a) Define syngamy and write its significance.
 - b) State the difference between polyps and medusa.

- c) Write four advanced characteristics of Etenophora
 - d) Write briefly about Bladder worm.
 - e) Write the distinctive characters that differentiate Hydrozoa from Anthozoa.
 - f) "Onychophora is called as a living fossil" - justify the statement.
 - g) Mention the mode of asexual reproduction in protozoa.
 - h) Define Tiedmann's Body.
3. Write briefly on the following (*any four*) : 5x4=20
- a) Sol-gel theory
 - b) Evolutionary significance of coelom
 - c) General characteristics in the phylum Arthropoda.
 - d) Elephantiasis
 - e) Respiratory mechanism in the phylum Arthropoda.
 - f) Significance of metamerism
 - g) Parasitic adaptation of platyhelminths.
 - h) Importance of coral reefs
4. Answer *any one* from the following questions: 1x10=10
- a) What is canal system? Describe the canal system of Sycon with suitable diagram and write its significance.
 - b) What is polymorphism? Describe polymorphism in cnidaria with diagram.
 - c) Describe the life cycle of Fasciola hepatica. Name the intermediate host of the worm.
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