

Reg. No

Name

24U234

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2024

SEMESTER 2 - ZOOLOGY

COURSE : 19U2CRZOO02 - ANIMAL DIVERSITY NON - CHORDATA II

(For Regular - 2023 Admission and Improvement / Supplementary –2022/ 2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. Define auxetic growth.
2. Name the anteriormost appendage of *Penaeus*.
3. What is the name of geological period in which most of the Trilobite arthropods lived?
4. What is known as Aristotle's Lantern?
5. Differentiate prostomium and pygidium.
6. Outline the way Balanoglossus gets protection from their predators.
7. Define eutely.
8. What is camouflage ? Give example.

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. What is carapace?
10. Reflect the working of respiratory trees.
11. Explain turtle leeches.
12. Name the larval forms of trematodes.
13. Discuss on Peanut worms. Add notes on the ecological significance of *Sipunculus nudus*.
14. Comment on the predator evading technique characterised by cuttle fishes.
15. What are known as Glass worms? Write on their habitat.
16. What is the basis of the name "Trilobitomorpha"?

(2 x 6 = 12)

PART C

Answer any 4 (4 marks each)

17. Prepare explanatory notes for the following
1) Mother of pearl 2) Natural and cultured pearls 3) Balanoglossus
18. What is body segmentation ? How it is significant in *Pheretima posthuma* ?
19. Discuss on the process of digestion in *Pheretima*. Use neat labelled diagram.
20. Discuss the classification and affinities of Onychophorans.
21. List out the diagnostic features of group ophiuroidea. Add notes on the larval forms of the group (Use neat diagram).
22. Point out the salient features of group trematodes. Write on any two parasites on the group.

(4 x 4 = 16)

PART D

Answer any 2 (12 marks each)

23. Elucidate the basic morphology and mechanism of water vascular system in echinoderms. Add notes on the system in sea urchin.
24. Discuss the respiratory system and circulatory system of *Penaeus indicus*.
25. Evaluate the mechanism of reproductive development in earthworm. Add notes on fossorial adaptations of the species.
26. *Fasciola hepatica* is a digenetic Trematode. Substantiate the statement using neat diagrams.

(12 x 2 = 24)