20U227

Reg. No ..... Name .....

B. Sc DEGREE END SEMESTER EXAMINATION - MARCH 2020

SEMESTER 2 : ZOOLOGY

COURSE : **19U2CRZOO02 : ANIMAL DIVERSITY NON - CHORDATA II**

(For Regular - 2019 Admission)

Time : Three Hours Max. Marks: 60

Section A

Answer All the Following (1 mark each)

1. Define rheotaxis
2. Define scolex
3. Differentiate notopodium and parapodium
4. What is the common name of Onychophorans?
5. What is the name of the food grinding organ in the prawn's cardiac stomach?
6. What is the common name of *Perna viridis*?
7. Define madreporite
8. Name the characteristic larval form of *Balanoglossus.*

(1 x 8 = 8)

Section B

Answer any 6 (2 marks each)

9. Write a short note on trichinosis
10. Discuss on the diffrent sense organs in earthworm?
11. Why 'Limulus' is known as a "living fossil"?
12. Name the different tagmata of trilobites.
13. Comment on the economic importance of tusk shells.
14. Write a short note on feather stars
15. What are known as Glass worms? Write on their habitat.
16. Significance of cryptobiosis in Rotifera

(2 x 6 = 12)

Section C

Answer any 4 (4 marks each)

17. List out the salient features of flatworms accounting examples for different groups
18. Describe the morphology of earthworm with illustration
19. Elaborate the Digestive system in earthworm. Use neat labelled diagram
20. Discuss the classification and affinities of Onychophorans.
21. Write a description of natural pearl formation in bivalves. Comment on artificial method to induce pearl production by pearl oysters.
22. Describe the larval forms of asteroidea and crinoidea

(4 x 4 = 16)

Section D
Answer any 2 (12 marks each)

23. Discuss on the mechanism of reproductive development in earthworm. Add notes on fossorial adaptations of the species
24. Describe the nervous system and sense organs of *Penaeus indicus.* Provide neat diagrams
25. Describe the body organisation of animals belong to **any four** classes of Phylum Mollusca, with the help of examples.
26. Elucidate the basic morphology and mechanism of water vascular system in echinoderms. Add notes on the system in sea cucumbers

(12 x 2 = 24)