(Pages : 3) **B – 3098**

Reg. No. : .....

Name : .....

First Semester B.Sc. Degree Examination, December 2016
First Degree Programme under CBCSS
ZOOLOGY
Core Course I
ZO 1141 : Animal Diversity – I
(2015 Admission Onwards)

Time : 3 Hours Max. Marks : 80

SECTION – A

Answer **all** the questions in **one** or **two** sentences. **Each** question carries **one** mark. **(10×1 = 10 Marks)**

1. What is binomial nomenclature ?
2. What are acoelomates ?
3. What is the common name of *Actinophrys*.
4. What are choanocytes ?
5. What is meant by sexual dimorphism ? Give an example.
6. What is a living fossil ?
7. What is ink sac ?
8. Name the class and genus of
   a) Tusk shell
   b) King crab
9. What are madreporites ?
10. What are book-lungs ?

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SECTION – B

Answer **any eight** questions. **Each** carries **two** marks. Answer **not** to exceed **one** paragraph. **(8×2 = 16 Marks)**

11. Write any 4 features of Class Schyphozoa.
12. Briefly explain the ecological association of *Adamsia* and *Eupagurus*.
13. Distinguish between radial and bilateral symmetry.
14. Write a note on the morphology of *Enterobius*.
15. Mention the function of hepatopancreas of prawn.
16. Write the significance of biological nomenclature.
17. What are cnidoblasts ? Mention its function.
18. Briefly explain the evolutionary significance of Peripatus.
19. What is hectocotylization ? In which organism it is seen ?
20. Name the larval forms of
    a) *Asterias* b) *Ophiothrix* c) *Echinus* d) *Antedon*
21. What is a hermaphrodite ? Give an example.
22. Write a note on *Neomenia*.

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SECTION – C

Answer **any six** questions. **Each** question carries **four** marks. Answer **not** to exceed **120** words. **(6×4 = 24 Marks)**

23. With a neat labelled diagram explain the morphology of *Noctiluca*.
24. Explain the blood feeding adaptations of Leech.
25. Briefly explain the morphological features of *Chiton*.
26. Enumerate the salient features of *Echinoidea*.

27. Write a note on vermiculture.

28. Enlist the general characters of phylum Mollusca.

29. Briefly explain the pathogenicity and prophylaxis of *Ancylostoma*.

30. Enumerate the unique features of *Peripatus*.

31. Sketch and label the structure of *Obelia* colony.

SECTION – D

Answer **any two** questions. **Each** question carries **fifteen** marks. **(2×15 = 30 Marks)**

32. Write an essay on the respiratory system of Penaeus. Add a note on the mechanism of respiration.

33. Explain five kingdom classification. Add a note on its merits and demerits.

34. Write an essay on the life history, pathogenicity and prophylaxis of *Plasmodium*.

35. Write an account on importance of Apiculture. Add a note on the uses of honey.

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