

C 82981

(Pages : 2)

Name.....

Reg. No.....38

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2015

(CUCBCSS-UG)

Core Course

Zoology

ZO 2B 02—ANIMAL DIVERSITY – NON-CHORDATA—II

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

One word questions. 1 mark each.

1. What is heteronereis ?
2. Define Ecdysis.
3. What are malpighian tubules ?
4. What is telson ?
5. What is haemocoel ?
6. What is petasma ?
7. Name a fresh water mollusc.
8. What is an exoskeleton ?
9. What is the function of chelate legs ?
10. What type of symmetry is found in the adult echinoderm ?

(10 × 1 = 10 marks)

Part B

Answer any ten.

Short Answer Questions. 2 marks each.

11. Define Coelom. Name a group in which it is present.
12. What is Aristotle's lantern ? Mention its function.
13. Distinguish between prostomium and peristomium.
14. What are mandibles ? Mention its function.
15. Assign the following animals to their respective phyla: Spider, Earthworm, Sepia and Star fish.
16. What are setae ? In which phylum it is present ?
17. Mention any two blood sucking adaptations of *Hirudinaria*.

Turn over

18. What are pedicellaria ? Mention its function.
19. What is the biological significance of *Limulus* ?
20. Name the phyla which have the following features :—
 - (i) presence of tube feet.
 - (ii) presence of radula.
21. Mention any four characters of phylum hemichordate.
22. Write an account of *Mantis*.

(10 × 2 = 20 m)

Part C

Answer any five.

Paragraph questions. 6 marks each.

23. Comment on the biological significance of *trilobite*.
24. Give an account of *Perna*. Mention its economic importance.
25. Mention affinities of *Peripatus* with annelids.
26. Give an account of digestive system of *Penaeus*.
27. Write an account on Living fossil with examples.
28. Write an account on mantle complex of *Pila*.
29. Enlist any six characteristic features of phylum Annelida.
30. Write short notes on *Sacculina*.

(5 × 6 = 30 m)

Part D

Answer any two.

Essay Questions. 10 marks each.

31. Write notes on any five of the following :—

(i) <i>Dentalium</i> .	(ii) <i>Lepisma</i> .
(iii) <i>Eupagurus</i> .	(iv) <i>Holothuria</i> (sea cucumber).
(v) <i>Balanoglossus</i> .	(vi) <i>Bugula</i> .
32. Enumerate the general characters and outline classification of phylum mollusc up to class with suitable examples.
33. Give general characters of phylum Echinodermata and its classes with example.
34. Give an account of water vascular system in *Asterias* (star fish).

(2 × 10 = 20 m)