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Name.....

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Reg. No.....

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION  
JANUARY 2014**

(UG-CCSS)

Core Course – Zoology

ZO 1B 01 – ANIMAL DIVERSITY : NON-CHORDATA – I

(2013 Admission onwards)

Three Hours

Maximum : 30 Weightage

*Give illustration wherever necessary.*

Answer all *twelve* questions. Each question carries  $\frac{1}{4}$  weightage :

Multiple Choice Questions :

1. Which among the following is a digenetic parasite?  
(a) *Ancylostoma*.                      (b) *Fasciola*.  
(c) *Enterobius*.                        (d) *Ascaris*.
2. Five kingdom classification was proposed by :  
(a) Aristotle.                            (b) Ernst Haeckel.  
(c) R.H. Whittaker.                      (d) Charles Darwin.
3. The Protist found in the intestine of termites is :  
(a) *Plasmodium* .                        (b) *Entamoeba*.  
(c) *Leishmania*.                         (d) *Trichonympha*.
4. The larva of Pleurobrachia is :  
(a) *Amphiblastula*.                      (b) *Cercaria*.  
(c) *Cidippid*.                                (d) *Miracidium*.

Name the following :

5. The button polyp.
6. The Venus flower basket.
7. The bell animalcule.
8. The Portuguese man of war.

Turn over

Fill in the blanks :

9. \_\_\_\_\_ are the defensive structures present in coelenterates.
10. The body cavity of *Chaetoonotus* is a \_\_\_\_\_.
11. \_\_\_\_\_ is the intermediate host of *Fasciola*.
12. \_\_\_\_\_ is the dinoflagellate which causes red tide.

(12 × ¼ = 3 weightage)

II. Short answer questions. Answer all *nine* questions :

13. What is a Schizocoel?
14. What is binomial nomenclature?
15. Give the scientific name of the following :
  - (a) Liver fluke.
  - (b) Blood fluke.
  - (c) Pin worm.
  - (d) Hook worm.
16. What are the features of a Polyp?
17. What is Phenetics?
18. Give two examples for organisms showing Polymorphism and division of labour.
19. Write a short note on the ecological relationship shown by *Adamsia*.
20. What is Eucoelom?
21. Give an example for a free living Platyhelminth.

(9 × 1 = 9 weightage)

III. Short answer questions. Answer any *five* questions :

22. Give an account of the Water canal system found in *Sycon*.
23. Compare Radial symmetry and Bilateral symmetry.
24. Sketch and label the structure of *Obelia* colony.
25. Explain the morphology of *Paramecium*.
26. What are the salient features of Phylum Rotifera?
27. Explain the parasitic adaptations shown by *Fasciola*.
28. What are the unique features of Pleurobrachia?

(5 × 2 = 10 weightage)

Essay questions. Answer any *two* questions :

29. Explain the merits and demerits of five kingdom classification.
30. Explain the salient features of Phylum Aschelminthes.
31. Illustrate the morphology and structural organisation of *Paramecium* with the help of a suitable diagram. Explain the mechanism of conjugation.

(2 × 4 = 8 weightage)