

**B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2014**  
**FIRST SEMESTER – COMPLEMENTARY COURSE**  
**FOR BOTANY & HOME SCIENCE**  
**ZOO1ADNC - ANIMAL DIVERSITY – NON CHORDATA**

Time: 3 hours

Total Marks: 60

**PART I**

(Answer **all**. 1 mark each)

1. Name the causative organism of Filariasis.
2. Why is *Entamoeba histolytica* known as a monogenetic parasite?
3. What is 'red tide'?
4. What is clitellum?
5. Mention the larva of Nereis.
6. Assign the following to the respective phyla: a] *Plasmodium vivax* b] *Nosema*
7. Write the habitat of a] *Taeniasolium* b] *Planaria*
8. What is Aristotle's lantern?

[8x1 = 8]

**PART II**

(Answer any **six**; answer in one paragraph each)

9. Name the locomotory organs of a] *Actinophrys* b] *Euglena* c] *Amoeba* d] *Paramecium*
10. Comment on the phylogenetic position of Rhopalura.
11. Describe the morphology and distribution of *Trycoplax*.
12. Write any four respiratory structures in Echinodermata.
13. What is metagenesis? Give one example.
14. Differentiate Protostomia from Deuterostomia.
15. Comment on autotomy with an example.
16. Comment on sexual dimorphism in *Trichinella*.
17. What is alloigenesis?
18. What is 'gastric mill'?

[6x2 = 12]

(P.T.O)

### PART III

(Answer any **four**; answer in one page each)

19. Describe the structure of miracidium and cercaria.
20. How is *Hirudinaria* adapted for a parasitic mode of life?
21. Enumerate the characteristics of phylum Echinodermata.
22. Why is *Peripatus* considered as a connecting link between Arthropoda and Annelida?
23. Give an account on scientific naming
24. How can you justify the inclusion of *Balanoglossus* under Hemichordata?

[4x4 = 16]

### PART IV

(Answer any **two**; answer should not exceed four pages)

25. Enumerate the phyla coming under Kingdom Protista. Give examples for each phyla.
26. Classify phylum Mollusca up to classes, giving the salient features of each class.
27. With suitable illustrations, describe the cephalic appendages of *Penaeus*.
28. What do you mean by a coral reef? Substantiate the statement 'A coral reef is a complex living community'.

[2x12 = 24]