E 3854 (Pages : 2) Reg. No.................................

Name.....................................

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2016

Third Semester

Core Course—ANIMAL DIVERSITY–NON-CHORDATA

(Common for the Programmes B.Sc. Zoology Model I, Model II B.Sc. Industrial Microbiology and Zoology)

[2013 Admission onwards]

Time : Three Hours   Maximum : 60 Marks

Part A (Short Answer Questions)

Answer all questions.

1 mark each.

1. What do you mean by Enterocoelom ?

2. Note on Trypanosoma.

3. Define Binomial nomenclature.

4. Differentiate between Ostia and Osculum.

5. Give *one* example for each of the classes Polychaeta and Oligochaete.

6. Mention the salient features of Trilobite.

7. Name the disease caused by :

    (a) Fasciola hepatica.   (b) Wuchereria bancrofti.

8. Define the law of purity.

$(8 \times 1 = 8)$

Part B (Brief Answer Questions)

Answer any six questions.

2 marks each.

9. Differentiate between Radial and Bilateral symmetry.

10. Comment on Limulus.

11. Make a note on Euplectella.

12. Give a brief description on sepia.

13. Write important characters of Balanoglossus.

14. Give the salient features of the Phylum Ctenophora with example.

Turn over

15. Write short notes on two kingdom classifications.

16. What do you mean by canal system in sponges ?

17. Write short notes on Obelia medusa.

18. Write a brief notes on the class Turbellaria.

(6 × 2 = 12)

Part C (Problems/Derivations)

Answer any **four** *questions.*

4 marks each.

19. Briefly explain Vectorial Arthropods.

20. Explain various steps involved in Pearl culture.

21. Classify Phylum Coelenterata upto classes giving examples for each class.

22. Explain the life-cycle of Taenia solium.

23. Write about :

    (a) Hirudinaria.

    (b) Peripatus.

24. Describe the characters of the Minorphylum Rotifera and Chaetognatha.

(4 × 4 = 16)

Part D (Long Answer/Problem Questions)

Answer any **two** *questions.*

12 marks each.

25. Explain the life-cycle of Fascida hepatica.

26. With the help of labelled sketches explain the larval forms of Echinoderms.

27. Describe any *three* Pathogenic Nematodes.

28. Explain polymorphism in Coelenterates.

(2 × 12 = 24)