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End Semester Examination of Semester-I, 2015

Subject : ZOOLOGY (HONS.) (UG)

Paper : ZHT-101 (Theory)

Full Marks : 40

Time : 2 Hrs

*The figures in the margin indicate the marks
corresponding to the question*

*Candidates are requested to give their answers
in their own word as far as practicable.*

Illustrate the answers wherever necessary.

Group A

Answer any two out of four questions : 10x2=20

1. a) Explain why *Pila* and *Unio* are included in same phylum but different classes. 5
- b) Compare Ratitae with Carinitae. 3
- c) Define holotype. 2
2. a) Write the hallmark features of Urochordates? 4
- b) Name the invertebrate group that is most closely related to chordates with proper explanation. 6
3. a) Define animal. 2
- b) Briefly discuss the critical points of Biological species concept. 5

(2)

c) Differentiate between artiōdactyla and perissodactyla.

3

4. a) Give outline classification of the animal phylum first to achieve metameric segmentation.

b) Discuss the significance of metamerism in annelids.

Group B

Answer any two out of four questions : 5×2=10

5. a) What do you mean by blastocoelomate? 2

b) Add a note on Law of Priority. 3

6. a) Mention the important larval forms of the phylum Echinodermata. 2

b) Draw & describe any larval form of echinoderm. 3

7. What is a larva? Compare plesiomorphic characters with apomorphic characters. 1+4

8. What advancements do you notice in the digestive sysmte of ctenophores compared to cnidarians? Name and characterize deuterostome archetype larva. 2+3

(3)

Group C

Answer any five out of ten questions : 2×5=10

9. What do you mean by physoclistous condition?

10. Compare colloblasts with cnidoblasts.

11. Name two 'shell-less' molluscs. What are radula?

12. Write a note on Linnaean hierarchy.

13. What is 'apical complex'?

14. What is meant by polyphyly? Name on vertebrate polyphyletic group.

15. What is endostyle?

16. Do you consider *Amoeba* sp. as an animal? Explain your answer.

17. What is syndactyly? Where could you found this?

18. Write the scientific names of two flight-less bird.
