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**End Semester Examination of Semester-I, 2015**

**Subject : ZOOLOGY (PG)**

**Paper : ZPGT-101 (Gr A + Gr B)**

**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.*

**Use separate Answer scripts for Group A and Group B**

**Group A**

**Answer Question No. 1 and  
any one out of Question No. 2 and Question No. 3**

1. Answer any five questions : 2x5=10
- i) What is anhydrobiosis? Explain with example.
  - ii) 'The nervous system of molluscs is derived from a rope-ladder nervous system' — justify.
  - iii) What is tracheal gill? Give one example that possesses it.
  - iv) How do the larval forms of protostomes differ from deuterostomes?

- v) Write four salient features of Pogonophora.
  - vi) What are the speculative functions of silk cocoon?
  - vii) What is conchiolin? What is a corallite?
  - viii) What are the locomotory structures found in echinoderms?
2. a) Rotifers have bilateral symmetry — Justify. 4
- b) Describe with diagram a book lung. Give one example of animal that posses it. 4
- c) What is mastax? 2
3. a) What is meant by zooxanthellae?
- b) Draw and describe in brief, about the components of a typical garden spider orb web.
- c) What are the conditions required for optimal growth of coral? 2+4+4

**Group B**

**Answer Question No. 1 and  
any one out of Question No. 2 and Question No. 3**

1. Answer any five questions : 2x5=10
- i) Mention the biological status of Ostracoderm.
  - ii) What is Jacobson's organ?

- iii) State why the stomach of camel is different from other ruminants?
  - iv) State two functions of electroreceptors.
  - v) What are the different types of vertebrae based on the nature of centrum?
  - vi) How do you think limbs of tetrapoda has evolved from fins of fishes?
  - vii) What is secondary palate? When is it found?
  - viii) What are the components of neurocranium?
2. a) Describe Garstang's hypothesis to explain role of neoteny in evolution of vertebrates. 5
- b) What are the parts of internal ear? Describe the structure of cochlea in vertebrates. 2+3
3. a) What are different types of teeth found in vertebrates?
- b) Describe different theories on origin of pharynx. 5+5
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