End Semester Examination of Semester–III, 2015
Subject : ZOOLOGY (PG)
Paper : ZPGT–303 (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 (Full Marks : 20)
(Biodiversity & their Conservation)

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

1. Answer **any five** question: 2x5=10

   i) On what basis a biodiversity hot spot is selected? Name biodiversity hotspots of India.

   ii) Enlist IUCN categories of protected areas based on degree of permissible human intervention.

   iii) Write a note of PBR.

iv) What is a Ramsar site? How many Ramsar sites are there in India?

v) Discuss about flagship species with one example.

vi) What is sustainable development?

vii) What is biopiracy?

viii) What is the difference between cured and uncured trophy?

2. Discuss the concept of 'Biosphere Reserve' in the sustainable management of wild life resource. What are the selection criteria for a Biosphere Reserve? Give a brief account of the structure of typical biosphere reserve. How many biosphere reserves have so far been notified in India?   3+2+4+1

3. Why is wildlife census important? What information is important to collect during wildlife census? Briefly describe about the methods available for counting wildlife.
3+2+5

Group B (Full Marks : 20)
(Biosystematics)

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

1. Answer **any five** question: 2x5=10

i) What do you mean by Sibling species?

ii) What is the 'Law of Priority'?

iii) What do you mean by 'Holotype' and 'Syntype'?

iv) What is Malaise trap?

v) Mention two deficiencies in the principles of cladistic Classification.

vi) Differentiate between a taxon and a category.

vii) Distinguish between micro and macro taxonomy.

viii) What is tantonymy? Give example.

2. What is type? Mention the different primary types with definition. Write in brief the procedure for creation of lectotype and neotype. $1+4+(2\frac{1}{2}+2\frac{1}{2})$

3. What is Biological / Zoological classification? Name the theories of biological/ zoological classification. Briefly discus any one of those theories. $2+2+6$