End Semester Examination of Semester–I, 2015
Subject : ZOOLOGY (PG)
Paper : ZPGT–103 (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) With the help of a diagram show which island will
   have more species, an island which is nearer to
   mainland or an island which is far away from the
   mainland.

   ii) Differentiate between an edge and an ecotone.

   iii) What is ecological equioxlant?

   iv) Differentiate between direct competition and apparent
   competition. Give example.

v) Differentiate between habitat and niche.

vi) Distinguish between semelparity and iteroparity.

vii) What is phenotypic plasticity?

viii) What do you mean by ecological guild?

2. In what way stability of an ecosystem is maintained through feedback control? How redundancy of components influences ecosystem stability? 7+3

3. What are γ and k-selected species? Write a brief note on Lotka-Voltera model of predator-prey interaction and its significance. 2+5+3

Group B

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

1. Answer **any five** questions : 2×5=10

i) What is a teratogen?

ii) What do you mean by Median Tolerance limit?

iii) What is Toxicometries?

iv) What are bioindicators? Cite example.

v) Differentiate 'Biomes' from 'Ecosystem'.

vi) Mention the differences between 'Acute Toxicity' and 'Chronic Toxicity'?

vii) What are the consequences of Eco-terrorism?

viii) Highlight on 'Endocrine disruptions'.

2. Define homeostasis? What are the three main strategies of homeostasis? Differentiate acclimatization & acclimation.

2+4+4

3. What is EIA? Mention major steps in EIA. Discuss on different steps on environmental monitoring. 2+3+5

———————