M 7170 

Reg. No.:....

Name:....

V Semester B.Sc. Degree (CCSS - Reg./Supple./Improve.) Examination, November 2014 CORE COURSE IN ZOOLOGY

5B06ZLG: Environmental Biology and Zoogeography

Max. Weightage: 25 Time: 3 Hours

## SECTION-A (Environmental Biology)

- I. Answer any one (Weightage 4):
  - 1) Comment on causes of biodiversity depletion and strategies of biodiversity conservation.
  - 2) What are the causes and effects of radioactive pollution? Suggest relevant  $(1 \times 4 = 4)$ remedial measures for it.
- II. Answer any one (Weightage 4):
  - 3) What do you mean by population? Explain its properties.
  - 4) Explain population interaction.

 $(1 \times 4 = 4)$ 

- III. Answer any three (Weightage 2 each):
  - 5) Give an account of flow of energy in an ecosystem.
  - 6) Comment on abiotic factors that influence an ecosystem.
  - 7) Write a short note on nitrogen cycle. What is nitrogen fixation?
  - 8) Explain Shelford's law of tolerance.
  - 9) What do you mean by greenhouse effect? Mention its impacts.

 $(3 \times 2 = 6)$ 

P.T.O.

## IV. Answer any four (Weightage 1 each):

- 10) Explain the properties of the Forest Conservation Act, 1972.
- 11) Explain edge effect.
- 12) Population growth curves.
- 13) Food web.
- 14) Acid rain.
- 15) Ecological indicators.
- 16) What is biotic potential.

 $(4 \times 1 = 4)$ 

V. Answer the following (Weightage 1 each):

17) a) \_\_\_\_\_ is a negative population interaction.

- [a. Commensalism
- b. Mutualism
- c. Parasitism]
- b) Name any two green house gases.
- c) Name a faunal species endemic to Western Ghats.
- d) Name the two biological hotspots in India.

18) Match the following:

- a) Mutualism
- Extinction of species
- b) Cannibalism
- Western Ghat
- c) Hot spot
- Positive interaction
- d) Habitat loss
- Type of predation

 $(2 \times 1 = 2)$ 

SECTION – B (Zoogeography)

- VI. Answer any two (Weightage 2 each):
  - 19) Comment on oceanic island.
  - 20) Describe barriers to animal distribution.
  - 21) Explain isolated distribution of animals.
  - 22) Briefly describes fauna features of palaearctic region. (2×2= 4)
  - 23) Match the following (Weightage 1 each):
    - a) Florastic region Ethiopian realm
    - b) Neartic region Australian realm
    - c) Marsupials Gangetic plain
    - d) African Elephant Greenland and North America (1×1=1)