



SN – 378

V Semester B.Sc. Examination, November/December 2017  
(CBCS) (2016-17 & Onwards) (Freshers + Repeaters)  
ZOOLOGY (Paper – V)  
Environmental Biology and Ethology

Time : 3 Hours

Max. Marks : 70

- Instructions :** 1) Draw labelled diagrams *wherever* necessary.  
2) Answer should be **completely** either in **Kannada** or **English**.

PART – A

BMSCW

I. Answer **any five** of the following.

(5×3=15)

- 1) Define :
  - a) Natality
  - b) Mortality
  - c) Population density.
- 2) Mention any three types of negative interspecific interactions with an example each.
- 3) Give any three harmful effects of Ozone layer depletion.
- 4) Define fungicides. Give two examples.
- 5) What are critically endangered species ? Give two examples.
- 6) Differentiate between phototaxis and chemotaxis citing suitable examples.
- 7) Write a note on parasitic mimicry.

PART – B

II. Answer **any five** of the following.

(5×5=25)

- 1) List any five thermoregulatory mechanisms of homeotherms, in response to heat
- 2) Give an account of mitigation of the impact of acid rain.
- 3) Write notes on :
  - a) Wind as a renewable source of energy
  - b) Advantage of nuclear power plants.



- 4) Explain any two methods of solid waste management.
- 5) What is remote sensing ? Explain any two types.
- 6) Give an account of social life in Ants.
- 7) Signals and sounds play an important role in animal communication. Justify.

## PART - C

III. Answer **any three** of the following.

(3×10=30)

- 1) Define and elaborate on the concept of multi-dimensional niche.
- 2) What is ecological succession ? Explain with reference to Xerosere.
- 3) Give an account of any two approaches to integrated pest management.
- 4) Elaborate on the various methods of wild life conservation.
- 5) Write notes on :
  - a) Habituation
  - b) Parental care in Amphibians.
- 6) Give an account of migration in fishes.