

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

Time : 3 Hours

Max. Marks : 70

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

PART - A
BMSCW

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

(5x3=15)

- 1) What is acid rain ? Mention its impact on human health.
- 2) State the laws of thermodynamics.
- 3) Write a note on Biotic potential.
- 4) Mention the aims and objectives of ethology.
- 5) Differentiate between renewable and non-renewable energy resources.
- 6) Write a note on predatory mimicry.
- 7) Mention the applications of remote sensing.

PART – B

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

(5x5=25)

- 1) Explain the following :
 - a) Antibiosis
 - b) Competition.
- 2) Explain any two methods of solid-waste management.



- 3) Explain the impact of global warming on climate change.
- 4) Give an account of parental care in fishes.
- 5) What is IPM ? Write a note on chemical control.
- 6) Define ecological niche. Explain spatial and trophic niches with examples.
- 7) Describe social behaviour in termites.

PART - C

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

(3×10=30)

- 1) Discuss the following population structures.
a) Age distribution
b) Growth.
- 2) What is ex-situ conservation ? Explain any two methods.
- 3) What is toxicology ? Give a brief account of insecticides and herbicides.
- 4) Explain the role of pheromones in insects and vertebrates.
- 5) Discuss "Temperature" as an abiotic factor.
- 6) Write an essay on bird migration.