



SS – 372

V Semester B.Sc. Examination, Nov./Dec. 2018
(CBCS) (Freshers and Repeaters) (2016-17 and Onwards)
ZOOLOGY – Paper – V
Environmental Biology and Ethology

Time : 3 Hours

Max. Marks : 70

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

PART – A

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

(5×3=15)

- 1) What is autecology ? Give an example.
- 2) Write a note on net primary productivity.
- 3) Briefly explain antibiosis with a suitable example.
- 4) Define pesticides. Give two examples.
- 5) Give a brief account of land filling.
- 6) What are instincts ? Give an example.
- 7) Mention three diagnostic features of biological clock.

PART – B

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

(5×5=25)

- 1) Discuss soil as an abiotic factor.
- 2) With respect to population ecology explain :
 - a) Density
 - b) Biotic potential.
- 3) What is ecological succession ? Explain the same with respect to hydrosere.
- 4) Enumerate the detrimental effects of lead and arsenic.
- 5) What is GIS ? List the applications.
- 6) Give an account of imprinting.
- 7) Write an explanatory note on parental care in fishes.

P.T.O.



PART - C

III. Answer any three of the following : (3×10=30)

- 1) Define ecological niche. Explain the types with examples.
- 2) Give a detailed account of the causes, effects and mitigation of green house effect.
- 3) Sun and wind are non-conventional renewable sources of energy. Justify.
- 4) Write notes on :
 - a) Red data book
 - b) Biosphere reserves.
- 5) Discuss social behaviour in honey bees.
- 6) Explain :
 - a) Eco-location in bats.
 - b) Role of pheromones in insects.

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