UN – 182

V Semester B.Sc. Examination, November/December 2015
(NS)
ZOOLOGY – V
Environmental Biology and Ethology
(70 – 2013-14 and Onwards 60 – 2012-13 Only)

Time : 3 Hours Max. Marks : 60/70

Instructions : 1) *Draw diagrams* ***wherever*** *necessary.*
2) *Answers should be completely written in* ***Kannada*** *or* ***English.***
3) *Candidates of* ***2013-14*** *onwards should write* ***all*** *Parts (****70*** *Marks).*
4) *Candidates of* ***2012-13*** *should answer Parts* ***A, B*** *and* ***C*** *only (****60*** *marks).*

PART – A

I. Answer **any five** of the following. **(5×3=15)**

1) Briefly explain Microhabitat citing an example.
2) Write short notes on Trophic niche.
3) Distinguish between Primary and Secondary productivity.
4) Comment on 'Age distribution' as a Population attribute.
5) Give the merits and demerits of Incineration in the management of Solid Wastes.
6) Citing an example, explain Habituation.
7) What is meant by Stereotyped behaviour ? Name any two types.

PART – B

II. Answer **any five** of the following. **(5×5=25)**

1) Discuss the biological effects of Temperature as an abiotic factor on the metabolism and morphology.
2) Explain energy flow in an ecosystem with an illustration.

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3) Define ecological succession. Briefly explain the trends of succession.

4) Explain the importance of microbes in the degradation of Xenobiotics.

5) Write an explanatory note on
   a) Natality
   b) Mortality.

6) With reference to communication in animals explain the role of
   a) Aggression
   b) Bioluminescence.

7) What are pheromones ? Explain their role in Insects.

PART – C

III. Answer **any two** of the following. **(2×10=20)**

1) Give an account of the meaning, causes, effects and control measures of :
   a) Green House effect and Global warming
   b) Acid rain.

2) Write an essay on In situ conservation of Wild life.

3) Explain :
   a) Mechanism of toxicity
   b) IPM-Definition and approach.

4) Give an account of Migration in Fishes.

PART – D

IV. Answer **any one** of the following. **(1×10=10)**

Explain Solar and Wind as renewable energy resources in the context of the power crisis.

OR

Give a detailed account of the Social organization in Primates.
