

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2188

M.Sc. (Final) Examination, 2022

ZOOLOGY

Paper - VI

(Animal Ecology and Ethology)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) Write one method of meeting temperature extremes.
- (ii) What is Allen's rule ?

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- (iii) What is Edge effect ?
- (iv) What are Age Pyramids ?
- (v) What are trophic levels in an Ecosystem ?
- (vi) Write about the types of Freshwater Habitats.
- (vii) What is Trial and Error Learning ?
- (viii) What is Taxes ?
- (ix) What is the meaning of Hierarchy in teritorial behaviour ?
- (x) What is Migration ?

Section-B

2. Describe Liebig's law of minimum.

Or

Describe the effects of temperature on animal distribution.

3. Describe the population growth forms.

Or

Describe the biotic community concept.

4. Describe the homeostatis in the Ecosystem.

Or

Describe the Oxygen Cycle.

5. Write about the factors influencing choice of food.

Or

Write about the imprinting.

6. Describe the olfactory signals.

Or

Describe the communication in insects.

Section–C

7. Describe the biological effects of light.
8. Describe the patterns of ecological succession.
9. Write an essay on estuarine ecosystem.
10. Describe the types of behaviour and their regulation.
11. Describe the reproductive behavior in stickle back fish.