

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-412

M.Sc. (Final) Examination, 2023

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 the role of light in an Environment.
- (ii) What is Aggregation ?
- (iii) What is Ecotone ?

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- (iv) What is Food Web ?
- (v) What are Nutrients ?
- (vi) Write some example of estuarine ecosystems.
- (vii) What is Habituation ?
- (viii) What is Kinesis ?
- (ix) What is Instinctive Behaviour ?
- (x) What are Social Signals ?

Section-B

2. Explain the Shelford's law of Tolerance.

Or

Describe the hydrological cycle in nature.

3. Write short note on community diversity.

Or

Explain the methods measured for population density.

4. Briefly explain the flow of matter and energy in ecosystem.

Or

Explain the concept of productivity.

5. Briefly write about feeding behaviour.

Or

Write role of hormones in behaviour.

6. Explain the tactile signals.

Or

Write the role of pheromones in insects.

Section-C

7. Write the general properties of population.
8. Describe the basic types of succession.
9. Write an essay on marine ecosystem.
10. Explain the social behaviour in Primates.
11. Discuss the behaviour of streptopelia (Ring Dove).