

Roll No : .....

Total No. of Questions : 11 ]

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# SP-666

M.Sc. (Final) Examination, 2021

## ZOOLOGY

Paper - VI

(Animal Ecology and Ethology)

Time : 1½ Hours ]

[ Maximum Marks : 75

### Section-A

(Marks : 2 × 10 = 20)

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

(खण्ड-अ)

(अंक : 2 × 10 = 20)

**नोट :-** सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

### 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.

(खण्ड-ब)

(अंक : 5 × 5 = 25)

**नोट :-** सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 5 अंक का है।

### Section-C

(Marks : 10 × 3 = 30)

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

(खण्ड-स)

(अंक : 10 × 3 = 30)

**नोट :-** पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 10 अंक का है।

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SP-666 P.T.O.

**Section–A**

2 each

Answer all questions.

1. (i) What do you mean by Ecology ?
- (ii) What is Allen Rules ?
- (iii) Define a Population.
- (iv) What is Edge Effect ?
- (v) Define Epilimnion.
- (vi) What do you mean by Biosphere Reserve ?
- (vii) Define Orientation.
- (viii) Write the name of Four Reference Books with author which you have studied for this paper.
- (ix) What is Habituation ?
- (x) Define Hormone.

**Section–B**

5 each

Answer all questions.

2. Discuss the Liebig's law of Minimum.

*Or*

How light affects the faunal diversity and distribution ?

3. Discuss in brief the Monoclimax Theory.

*Or*

Describe the salient features of an ecological Niche.

4. Describe in brief about energy flow in an ecosystem.

*Or*

Describe the salient features of an estuary.

5. Describe the contribution of Niko Tinbergen and Lorenz in the field of Ethology.

*Or*

How the use of drugs affects the Human Behaviour ?

6. Discuss the communication methods used by Primate Society.

*Or*

Explain the Single Gene Effect.

**Section–C**

10 each

Attempt any *three* questions.

7. Describe various abiotic factors which govern an ecosystem.

8. Describe various types of succession occurs in water and desert.

9. Describe in brief about gaseous cycle of an ecosystem.

10. Describe the neural mechanism of learning.

11. Describe the behaviour of Stickle Back Fish.