

D 93450

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2020**

(CBCSS)

Zoology

ZOL 1C 03—ECOLOGY AND ETHOLOGY

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

1. *In cases where choices are provided, students can attend **all** questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

**Section A**Answer any *four* questions. Each question carries 2 weightage :

- |                          |                                      |
|--------------------------|--------------------------------------|
| 1 Stimulus filtering.    | 2 Dominance hierarchy.               |
| 3 Filial imprinting.     | 4 Gangetic plain biogeographic zone. |
| 5 Autogenic succession.  | 6 Species dominance.                 |
| 7 Resource partitioning. |                                      |

(4 × 2 = 8 weightage)

**Section B**Answer any *four* questions. Each question carries 3 weightage :

- 8 Explain J. P. Scott's categories of behaviour.
- 9 Citing examples explain cultural transmission of behaviour.
- 10 Explain different methods of navigation by birds during navigation.
- 11 Explain the basic principles of conservation.
- 12 Explain, how decomposers and detritivores influence ecosystem functioning ?

**Turn over**

- 13 Elaborate on biodiversity of India with reference to status, monitoring and documentation.
- 14 Write on different kinds of predatory species-interactions.

(4 × 3 = 12 weightage)

### Section C

Answer any *two* questions. Each question carries 5 weightage.

- 15 Explain parental care and associated behavioural patterns.
- 16 Explain carbon cycle. Enumerate the factors influencing global carbon cycle.
- 17 Elaborate on the methods of estimating population density.
- 18 Write a critical account on the major terrestrial biomes.

(2 × 5 = 10 weightage)