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(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2025**

(CBCSS)

Zoology

ZOL 1C 03—ECOLOGY AND ETHOLOGY

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

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

- 1 *k* selection.
- 2 Pollination Syndrome.
- 3 Niche.
- 4 Edge effect.
- 5 Blue carbon.
- 6 Super normal stimuli.
- 7 Parental investment.

(4 × 2 = 8 weightage)

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

- 8 Features of Tundra biomes.
- 9 Green building technology and its importance.
- 10 Patterns of population dispersion.
- 11 Environmental impact of Sethusamudram ship canal project.
- 12 Ecological succession.
- 13 Social Dominance.
- 14 Kin selection and altruism.

(4 × 3 = 12 weightage)

**Turn over**

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

- 15 Explain the various types of mutualistic interactions with suitable examples.
- 16 Briefly explain the energy flow in an ecosystem.
- 17 Discuss on the role of hormones in behavioural patterns.
- 18 Explain JP Scott's categories of behaviour.

(2 × 5 = 10 weightage)