

D 72996

Name.....

Reg. No.....

**FIRST SEMESTER M.A./M.Sc./M.Com. DEGREE EXAMINATION
DECEMBER 2019**

(CBCSS)

Zoology

ZOL 1C 03—ECOLOGY AND ETHOLOGY

(2019 Admissions)

Maximum : 30 Weightage

Time : Three Hours

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

- 1 Agonistic behaviour.
- 2 Innate Releasing Mechanism.
- 3 Boreal forest.
- 4 Carbon trading.
- 5 North east biogeographical zone.
- 6 Concept of climax.
- 7 Eusocial.

(4 × 2 = 8 weightage)

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

- 8 Elaborate on conflict behaviour patterns.
- 9 Explain neural basis of sleep and arousal.
- 10 Elaborate on parental investment and reproductive success.
- 11 Citing examples explain the differences between r-selection and k-selection.
- 12 Critically evaluate the proposal of interlinking of major rivers of India.
- 13 Explain the mechanisms of ecological succession.
- 14 Elaborate on the ecological significance of pollination.

(4 × 3 = 12 weightage)

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

- 15 Citing the concept of Project Tiger elaborate on conservation and management in India.
- 16 Explain population growth curves. Elaborate on the factors influencing population growth patterns.
- 17 Enumerate different energy flow models.
- 18 Elaborate on the various aspects of evolution and adaptiveness of behaviour.

(2 × 5 = 10 weightage)