

C 32353

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2017**

(CUCSS)

Zoology

ZO 1C T03—ECOLOGY AND ETHOLOGY

(2016 Admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Answer *all* questions :

- 1 What is cryopreservation?
- 2 Write on genetic diversity.
- 3 Explain what is meant by carbon neutral.
- 4 What is tiger reserve?
- 5 Write on boreal forest.
- 6 Explain edge species.
- 7 What is a quadrate?
- 8 Write on niche overlap.
- 9 What is a climax?
- 10 Explain latent learning.
- 11 What is Fixed Action Pattern?
- 12 What is an ethogram?
- 13 Comment on kineses.
- 14 Write on polygyny.

(14 × 1 = 14 weightage)

II. Answer any *seven* of the following :

- 15 Explain behaviourism.
- 16 Citing examples explain the concept of sign stimuli.
- 17 Write on displacement activities.

Turn over

- 18 Write on grassland biome.
- 19 Differentiate between r-selection and k-selection.
- 20 Write on major drivers of biodiversity change.
- 21 Write on the advantages and disadvantages of interlinking of rivers.
- 22 Explain the concept of Biosphere Reserves.
- 23 Elaborate on age structure of a population.
- 24 Write on the mechanisms of ecological succession.

(7 × 2 = 14 weightage)

III. Answer any *two* of the following :

- 25 Elaborate on various aspects of evolution of behaviour.
- 26 Explain various species interactions.
- 27 Elaborate on ecosystem energetics and energy flow models.
- 28 Write on various population characteristics.

(2 × 4 = 8 weightage)