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(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(CUCSS—PG)

Zoology

ZO 1C T03—ECOLOGY AND ETHOLOGY

(2016 Syllabus Year)

Time : Three Hours

Maximum : 36 Weightage

I. Answer *all* questions :

- 1 What is selfish gene theory ?
- 2 Explain supernormal stimuli.
- 3 Distinguish between taxes and kineses.
- 4 What is ritualisation ?
- 5 Write on habituation.
- 6 Write on habitat and niche.
- 7 What is CNP ?
- 8 Comment on detritivores.
- 9 What is transect ?
- 10 What is carbon trading ?
- 11 Write on Proto co-operation.
- 12 What is ecotone ?
- 13 Write briefly on savanna.
- 14 What is an umbrella species ?

(14 × 1 = 14 weightage)

II. Answer any *seven* of the following :

- 15 Explain the concept of Protected Area.
- 16 Write on the principles of conservation.
- 17 Write on the concept of green building and its ecological importance.

Turn over

- 18 Explain community stratification.
- 19 Write on tropical rain forests.
- 20 Differentiate between r-selection and k-selection.
- 21 Explain energy flow with reference to Laws of Thermodynamics.
- 22 Explain reafference theory.
- 23 Elaborate on circadian rhythm.
- 24 Explain parental investment.

(7 × 2 = 14 weightage)

III. Answer any *two* of the following :

- 25 Elaborate on the various causes of loss of biodiversity.
- 26 Explain the various aspects of ecological succession.
- 27 Write a concise account on biogeographic zones of India.
- 28 Write on the social behaviour of termites.

(2 × 4 = 8 weightage)