

19P116

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Name:

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCSS PG)

CC19P ZOL1 C03 – ECOLOGY AND ETHOLOGY

(Zoology)

(2019 Admission Regular)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any *four* questions.

1. Explain the concept of resource partitioning. How is it different from competitive exclusion principle?
2. Explain the concept of carbon credit and blue carbon.
3. Give an account of different reproductive strategies in a species.
4. Discuss the reasons for the latitudinal gradient in biodiversity.
5. Explain the different types of mating systems in animals.
6. Give an account of conflict behaviour.
7. Comment on the cultural transmission of behaviour.

(4 x 2 = 8 Weightage)

II. Answer any *four* questions.

8. Discuss the benefits and drawbacks of river interlinking in India.
9. Explain the mechanism of succession. Comment on climax.
10. Discuss the methods for estimating population density of animals.
11. Comment on the different interspecific interactions with suitable examples.
12. Write on J P Scott's behaviour categories. Explain the proximate and ultimate factors of behaviour.
13. Comment on the neural basis of learning, memory and cognition.
14. 'Behaviour is a reaction to stimuli'. Substantiate the statement.

(4 x 3 = 12 Weightage)

III. Answer any *two* questions.

15. Explain the role of hormones of gonads and pituitary glands in regulating different behaviour patterns.
16. Explain the different biogeographical zones of India. Comment on the conservation issues and priorities.
17. Explain ecosystem energetics. Comment on the different energy flow models.
18. Write an essay on the principles of conservation. Explain the major Indian case studies on biodiversity conservation.

(2 x 5 = 10 Weightage)
