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(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2017

(CUCSS)

Botany

BO 04 ET 13 (2)—ENVIRONMENTAL BIOLOGY AND BIODIVERSITY CONSERVATION

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

I. Answer all *fourteen* questions. Each answer should be brief. Each question carries 1 weightage.

- 1 What are R selected species ?
- 2 Write a note on deep ecology.
- 3 What is meant by carrying capacity of ecosystems ?
- 4 What is commensalism ?
- 5 Define emigration.
- 6 What is meant by *In situ* conservation ?
- 7 Explain the concept of co-evolution ?
- 8 Define autecology.
- 9 What is meant by genetic diversity ?
- 10 Write brief note on allelopathy.
- 11 Explain coexistence.
- 12 What is meant by IPR ?
- 13 Write a note on ecological niche.
- 14 Make a brief note on Meta database.

(14 × 1 = 14 weightage)

Part B

II. Answer any *seven* questions. Each answer not exceeding 100 words. Each question carries 2 weightage.

- 15 Give an account of red data book.
- 16 Describe acid rain and its impacts.
- 17 Give an account on the value of wild species.
- 18 Describe ecological foot print.

Turn over

- 19 Give an account on population fluctuation.
- 20 Describe the contributions of Rabindranatha Tagore to ecology.
- 21 Give an account on the role of sacred groves in biodiversity conservation.
- 22 Describe Biodiversity Act (2002) of India.
- 23 Write an account on the basic principles of Ecotourism.
- 24 Write a brief account on *sthalavrikshas*.

(7 × 2 = 14 weightage)

Part C

III. Answer any two questions. Each answer not exceeding 300 words. Each question carries 4 weightage.

- 25 Write an essay on the causes, impacts and control measures of fresh water degradation and shortage.
- 26 Describe in detail the various facilities of biodiversity information management and communication.
- 27 Explain the causes and consequences of human population expansion.
- 28 Discuss the Indian thoughts on Ecology which has contributed to Environmental conservation.

(2 × 4 = 8 weightage)