

C 82376

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2015

(CUCSS)

Botany

BO 04E 13 (02)—ENVIRONMENTAL BIOLOGY AND BIODIVERSITY CONSERVATION

Time : Three Hours

Maximum : 36 Weightage

Part AI. Answer all *fourteen* questions. Each answer should be brief. Each question carries 1 weightage :

- 1 What are the factors affecting population growth ?
- 2 Distinguish between 'r' and 'k' selected populations.
- 3 What is cybernetics ?
- 4 What is meant by ecological footprint ?
- 5 What is home range ?
- 6 What is ecotone ?
- 7 How do you differentiate primary and secondary succession ?
- 8 What do you think the causes of marine fisheries decline ?
- 9 Write notes on energy flow.
- 10 What are the extrinsic factors affecting population fluctuations and cyclic oscillations ?
- 11 Briefly enumerate the contributions of Vandana Siva.
- 12 Explain the concept of endangered species.
- 13 Write notes on Principle of edges.
- 14 What are hot spots ?

(14 × 1 = 14 weightage)

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

- 15 Comment on the environmental laws in Indian constitution.
- 16 Briefly explain the significance of mangroves in biodiversity conservation.
- 17 Explain Gaia hypothesis.
- 18 Briefly explain water quality parameters.

Turn over

- 19 Write brief notes on impact of climate change.
- 20 What are negative interactions in a community ?
- 21 Sacred groves are abodes of immense biodiversity. Comment.
- 22 Briefly discuss the concept of deforestation and desertification.
- 23 What are the basic aspects in disaster management ?
- 24 Why ozone is considered as a blessing and curse for mankind ?

(7 × 2 = 14 weightage)

Part C

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

- 25 What are the important characteristics of population ? Comment on various population regulation mechanisms.
- 26 Give an account of aquatic pollution and its impact on aqualitic life forms.
- 27 Write an essay on biodiversity conservation and the significance of national environmental protection laws.
- 28 Compare and contrast any two global initiatives in environmental and biodiversity conservation.

(2 × 4 = 8 weightage)