

C 4761

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2016

(CUCSS)

Botany

**BO 02 CT 07—PLANT ECOLOGY, CONSERVATION BIOLOGY, PHYTOGEOGRAPHY,
FOREST BOTANY**

Time : Three Hours

Maximum : 36 Weightage

I. Answer the questions very *briefly* :

- 1 Explain the phenomenon of La-Nina.
- 2 What is Smog ?
- 3 Differentiate natality and mortality.
- 4 What do you mean by 'keystone species' ? Give *one* example.
- 5 Explain briefly the pattern of plant distribution.
- 6 Describe National Parks. Give the name of *two* National Parks in India.
- 7 What do you mean by mega-biodiversity centers ? Give *one* example.
- 8 What is edge effect ?
- 9 Describe 'National Heritage'.
- 10 Explain the 'Age and Area' hypothesis.
- 11 Describe Wild Life Preservation Act.
- 12 What is 'RET' ?
- 13 Describe the features of Agroforestry. What are its applications ?
- 14 What is niche and how it is classified ?

(14 × 1 = 14 weightage)

II. Answer any *seven* questions in not more than 100 words each :

- 15 What are the characteristic features of terrestrial habitat ?
- 16 Write a short note on bioremediation with suitable examples.
- 17 How habitat fragmentation affects the conservation strategies ?

Turn over

- 18 Briefly describe the productivity and energy flow of an ocean ecosystem.
- 19 Write a short note on International Biological Programme.
- 20 What are the effects of industrialization on global environment ?
- 21 What are the different types of forests in India ?
- 22 Write a short note on interaction between biotic and abiotic components of a desert ecosystem.
- 23 What are the causes of extinction ?
- 24 How remote sensing can be used for coastal ecosystem management ?

(7 × 2 = 14 weightage)

III. Answer any *two* questions in 300 words each :

- 25 Write an essay on characteristics of population. What are the ecological consequences of overpopulation ?
- 26 Write an essay on different types of forests in India. Give the plant and animal components of each forest type.
27. Write an essay on major threats of biodiversity. How to overcome these threats for the better preservation of biodiversity.
28. Write an essay on major and minor forest products of Kerala.

(2 × 4 = 8 weightage)