

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 x 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 x 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 x 4 = 8 **weightage**)