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Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2019**

(CUCSS)

Botany

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

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Answer the questions very briefly (weightage :  $14 \times 1 = 14$  ; grades : A, B, C, D, E) :

- 1 Write an account on gaia hypothesis.
- 2 What is EIA ?
- 3 Write about the productivity in an ecosystem.
- 4 What is edge effect ?
- 5 Write about El Nino and La Nina effects.
- 6 Write about Red listed species and give two examples.
- 7 Define ecological amplitude.
- 8 Write a short note on acid rains.
- 9 Write an account with example each for a national park and wild life sanctuary.
- 10 Write about age pyramids.
- 11 Differentiate between agroforestry and social forestry.
- 12 What is biomagnification ?
- 13 Write an account on carrying capacity.
- 14 Write a short account on green house effect.

II. Answer any seven questions in not more than 100 words (weightage :  $7 \times 2 = 14$  ; grades : A, B, C, D, E) :

- 15 Explain briefly the characteristics of a population.
- 16 The flow of energy is unidirectional and continuous in an ecosystem. Justify the statement.
- 17 Describe the causes of major threats to the biodiversity conservation.

Turn over

- 18 Give an account on forest products of Kerala.
- 19 Define endemic species. Give an account on endemic distribution.
- 20 Write about phytogeographical zones of world.
- 21 Briefly explain the various strategies of biodiversity conservation.
- 22 How industrialization is leading to deforestation ?
- 23 Describe briefly about the threats to the global environment.
- 24 Write a description on IBP and Environment Protection Act.

III. Answer any *two* questions in 300 words each (weightage :  $2 \times 4 = 8$  ; grades : A, B, C, D, E) :

- 25 Describe the role of NGOs in environmental protection.
- 26 Discuss the patterns of plant distribution.
- 27 Write a description on forest ecosystem and aquatic ecosystem.
- 28 Give an elaborate account on air pollution. Suggest the remedial and control measures to minimize air pollution.