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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 x 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 saactuary.
 - 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 x 2 = 14; gmdes: 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 biodiversny conservation.

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- 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.
- HI. Answer any *two* questions in 300 words each (weightage : 2 x 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.