

B.Tech II Year I Semester (R13) Regular & Supplementary Examinations December 2015

ENVIRONMENTAL SCIENCE

(Common to EEE, CSE and IT)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write any two of the three indicators of sustainable lifestyles in human life also known as human value index.
 - (b) Give any two drawbacks of hydroelectric power.
 - (c) What are the two parts of a forest eco system?
 - (d) Name any two accepted national hotspots of our country.
 - (e) What are the four fundamental ways in which noise can be controlled?
 - (f) What are the three main components in an integrated waste management strategy?
 - (g) Give any two harmful effects of acid rain.
 - (h) What are the two main functions of the Central Pollution Control Board?
 - (i) Name any two methods of temporary birth control.
 - (j) Give any two observations that should be recorded on a visit to a mountain site to document environmental assets.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Discuss the multidisciplinary nature of environmental studies.

OR

- 3 Discuss the role of an individual in conservation of natural resources.

UNIT – II

- 4 Give the characteristic features, structure and functions of a grassland ecosystem.

OR

- 5 Write about in situ and ex situ conservation of biodiversity.

UNIT – III

- 6 Define thermal pollution. Give the causes, effects and control measures of thermal pollution.

OR

- 7 Write the mitigation measures for the earthquake and cyclone disasters.

UNIT – IV

- 8 What is watershed management? Write the watershed management principles.

OR

- 9 Discuss the salient features of 'Forest Conservation Act'.

UNIT – V

- 10 Write about four major types of water related diseases.

OR

- 11 Give the guidelines for documenting a river resource use.
