

B.Tech I Year I Semester (R15) Regular Examinations December/January 2015/2016

ENVIRONMENTAL STUDIES

(Common to ECE, ME, EIE and IT)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

1 Answer the following: (10 X 02 = 20 Marks)

- (a) Give the difference between Renewable and Non-renewable resources.
- (b) What are the environmental impacts due to wind power in electricity generation?
- (c) What is an aquatic ecosystem? Also, provide the types of aquatic ecosystems.
- (d) Discuss briefly about aesthetic value of biodiversity.
- (e) List the characteristics of hazardous wastes.
- (f) Provide the permitted noise levels in silent zone and commercial zone.
- (g) Define sustainable development.
- (h) Enlist the effects of acid rain.
- (i) Write about the environmental values based on the Constitution of India.
- (j) What do you mean by environmental health? How it is linked with human health?

PART – B

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

UNIT – I

- 2 (a) Write about the linkages between the spheres.
- (b) Discuss the use and overexploitation of forest resources.

OR

- 3 (a) What are the problems due to Dams?
- (b) Discuss the role of an individual in conservation of natural resources.

UNIT – II

- 4 What are the threats to the forest ecosystem? How can forest ecosystem be conserved?

OR

- 5 (a) Write about the endangered endemic species of India.
- (b) Discuss in detail about in-situ conservation of biodiversity.

UNIT – III

- 6 (a) Explain the problems due to use of pesticides.
- (b) Discuss the effects of noise pollution on mental health.

OR

- 7 Write in detail about the effective and efficient mitigation measures for minimizing the effects of cyclones.

UNIT – IV

- 8 Discuss in detail the problems and concerns associated with resettlement and rehabilitation of people due to major projects.

OR

- 9 (a) What do you mean by '3R' principle in waste management? Explain them in brief.
- (b) Discuss the ways an individual can do, to control the air pollution.

UNIT – V

- 10 (a) Explain the risks due to chemicals in food.
- (b) Discuss the role of information technology in environment and human health.

OR

- 11 ~~Write your observations about a polluted site in your region and suggest measures to control the pollution.~~