

B.Tech I Year II Semester (R15) Regular Examinations May/June 2016

**ENVIRONMENTAL STUDIES**

(Common to CE, EEE and CSE)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) How awareness about environment help people to protect environment?
  - (b) Define ecological Succession.
  - (c) Differentiate between genetic and species diversity.
  - (d) Write short notes on in-situ and ex-situ conservation of biodiversity.
  - (e) Differentiate endangered and endemic species with examples.
  - (f) What are the sources for noise pollution?
  - (g) Brief photochemical smog.
  - (h) What are the safety measures you will follow for the safety disposal of nuclear hazards?
  - (i) What are primary and secondary air pollutants? Give any two examples.
  - (j) What are the sources and effects of marine pollution with a case study?

**PART – B**

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

**UNIT – I**

- 2 (a) Elaborate the different components and functions of an ecosystem.  
(b) Explain how the energy flow through the atmosphere.

**OR**

- 3 Describe the structure and functions of the forest ecosystem. Write short notes on Chipko movement.

**UNIT – II**

- 4 Explain measures to be taken to protect the biodiversity at global, national and local level.

**OR**

- 5 Explain about Carbon cycle & Nitrogen cycle with neat diagram.

**UNIT – III**

- 6 Describe the possible causes of landslides and write any precautionary measures for landslides.

**OR**

- 7 Explain the effects of Nuclear and Radiation Pollution.

**UNIT – IV**

- 8 Explain the harmful effects of fossil fuel over the environment? What are the steps you will take to overcome them?

**OR**

- 9 What adverse effects can municipal Solid waste cause? State the measures recommended for a proper management of the solid waste.

**UNIT – V**

- 10 What is an earth quake? Write its effects. What measures should be taken to mitigate the disaster?

**OR**

- 11 Discuss the causes, effects and control measures of thermal pollution.

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