

B.Tech I Year I Semester (R15) Supplementary Examinations June 2016

**ENVIRONMENTAL STUDIES**

(Common to ECE, ME, EIE and IT)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define environment.
  - (b) What are non-renewable energy resources? State their uses.
  - (c) Define food chain. Write its types.
  - (d) How consumptive values are helpful to human beings?
  - (e) Define Hot-spot. Name two hot-spots of India.
  - (f) What is water pollution?
  - (g) Classify solid waste with examples.
  - (h) When acid rain occurs? List its reasons.
  - (i) Write four impacts of global warming on environment.
  - (j) Write how ENVIS works.

**PART – B**

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

**UNIT – I**

- 2 Write in detail, working and function of wind mill and solar cell with a neat sketch.

**OR**

- 3 How synthetic fertilizer and pesticide cause an impact on living organisms and environment.

**UNIT – II**

- 4 Explain the structural components of desert and lake ecosystem.

**OR**

- 5 How In-Situ and Ex-Situ methods work for conservation of biodiversity?

**UNIT – III**

- 6 Enumerate waste water treatment. Explain trickling filters and activated sludge process.

**OR**

- 7 Define Noise pollution. Write any four effects and control measures of noise pollution.

**UNIT – IV**

- 8 What is CFC? How it is responsible for depleting ozone layer? What are its impact on environment and human health?

**OR**

- 9 Describe wildlife protection act and air prevention and control of pollution act.

**UNIT – V**

- 10 (a) Discuss the impact of increase of pollution on environment.  
(b) What are the strategies taken for the development of child in healthy environment?

**OR**

- 11 (a) Is value education is necessary in the present scenario? Discuss.  
(b) What is role of NMIS, GIS, database in environment and human health? Explain.

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