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**Model Question Paper (CBCS) with effect from 2015-16**  
**Fifth Semester B.E. Degree (CBCS) Examination**  
**Energy and Environment**

Time: 3 hrs.

Max. Marks: 80

**Note: Answer any FIVE full questions, choosing one full question from each module.**

**MODULE – I**

- 1 a** Interpret World Energy Scenario with respect to production and consumption using relevant statistics. (10 Marks)
- b** Define Energy and Power. Differentiate the same. (06 Marks)

**OR**

- 2 a** Explain the various key energy trends in India. (08 Marks)
- b** Outline the factors that affect India's energy development. (08 Marks)

**MODULE – II**

- 3 a** Explain in the detail the various phases of energy audit methodology. (08 Marks)
- b** List the various thermal energy storage methods. Explain sensible heat and latent heat storage methods. (08 Marks)

**OR**

- 4 a** Define Energy audit. Explain the need for energy audit. (08 Marks)
- b** Write a short note on energy demand estimation. (08 Marks)

**MODULE – III**

- 5 a** What is an ecosystem? Discuss forest ecosystem. Explain how conservation of forest can be done. (08 Marks)
- b** Discuss how oxygen cycle is utilized in the ecosystem. (08 Marks)

**OR**

- 6 a** Write a short note on (i) ecological succession (ii) food chain, food web and ecological pyramid. (08 Marks)
- b** Elaborate how the nitrogen cycle ecosystem operates. (08 Marks)

**MODULE – IV**

- 7 a** Discuss briefly the causes, effects and control measures of air pollution. (10 Marks)
- b** Discuss Solid Waste Management techniques. (06 Marks)

**OR**

- 8 a** Elaborate the causes, effects and control measures of (i) Soil Pollution (ii) Noise Pollution (iii) Thermal Pollution (08 Marks)
- b** Enumerate the role of an individual in prevention of pollution. (08 Marks)

**MODULE – V**

- 9 a** What is acid rain? What are its effects? (06 Marks)
- b** Explain the salient features of Air Pollution act. (10 Marks)

**OR**

- 10 a** Explain about Environment Impact Assessment (EIA). (08 Marks)
- b** Discuss (i) Wildlife Protection act (ii) Forest Conservation act. (08 Marks)