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## Seventh Semester B.E. Degree Examination, Feb./Mar. 2022

### Energy and Environment

Time: 3 hrs.

Max. Marks: 100

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

#### Module-1

- 1 a. What is Ecosystem? Classify the ecosystem. (07 Marks)
- b. Explain the energy flow in following Ecosystem : (13 Marks)
  - i) Oxygen cycle
  - ii) Nitrogen cycle.

OR

- 2 a. Explain the types and characteristic features of Grass land ecosystem and Aquatic ecosystem. (10 Marks)
- b. What is the need of Conservation of Biodiversity and explain the different approaches of Biodiversity Conservation. (10 Marks)

#### Module-2

- 3 a. Explain the causes, effects and control measures of Air pollution. (12 Marks)
- b. Write a note on Physical and Chemical properties of Terrestrial and Marine water. (08 Marks)

OR

- 4 a. Explain the following : i) Oxygen and Ozone depletion ii) Acid Rain (08 Marks)
  - iii) PAN
  - iv) Nuclear holocaust.
- b. Write a note on : i) Thermal pollution ii) Nuclear pollution. (12 Marks)

#### Module-3

- 5 a. Briefly explain the importance of Forest resources. (12 Marks)
- b. List the benefits and problems of dams. (08 Marks)

OR

- 6 a. List the beneficial affects of Adverse effects of : (12 Marks)
  - i) Use of Fertilizers
  - ii) Use of Pesticides.
- b. What are all the role of an individuals in Conservation of Natural Resources? (08 Marks)

#### Module-4

- 7 a. Briefly explain the principles of Green chemistry. (10 Marks)
- b. Write a note on : i) Rain water Harvesting ii) Watershed Management. (10 Marks)

OR

- 8 a. Write a note on : i) Wild Life Protection Act ii) Environment Protection Act. (12 Marks)
- b. Briefly explain the Biomedical Waste Management and handling. (08 Marks)

#### Module-5

- 9 a. Write a short note on : (12 Marks)
  - i) Population explosion
  - ii) Environmental Impact Analysis.
- b. What are the aims for Community Health (Value Education) Education? (08 Marks)

OR

- 10 a. Write a note on : i) Family Welfare programme ii) HIV/AIDS. (10 Marks)
- b. What are the effect of Environmental / Nature pollution on Human Health. (10 Marks)