

# CBCS SCHEME

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18MR752

## 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 :  
i) Oxygen cycle      ii) Nitrogen cycle. (13 Marks)

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  
iii) PAN      iv) Nuclear holocaust. (08 Marks)  
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 :  
i) Use of Fertilizers      ii) Use of Pesticides. (12 Marks)  
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 :  
i) Population explosion      ii) Environmental Impact Analysis. (12 Marks)  
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)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.