

CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

15ME562

Fifth Semester B.E. Degree Examination, Aug./Sept.2020 Energy and Environment

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Differentiate Energy and Power. List the different types of energies. (08 Marks)
b. Discuss the demand and access to modern energy aspects with respect to key energy trends in India. (08 Marks)

OR

- 2 a. Differentiate between primary and secondary energy sources. List the various primary energy sources. (08 Marks)
b. What are the factors affecting India's energy development? Explain any two factors. (08 Marks)

Module-2

- 3 a. Which are the different Thermal energy storage methods? (06 Marks)
b. What is Energy Audit? Explain the methodology used in Energy Audit. (10 Marks)

OR

- 4 a. Explain the various factors which affect energy pricing. (08 Marks)
b. What is Economic analysis of a project? What are the steps involved in economic analysis. (08 Marks)

Module-3

- 5 a. Explain the importance of Environmental education and Public awareness in the present day context. (10 Marks)
b. Explain the concept of Ecological pyramid. (06 Marks)

OR

- 6 a. Explain the components of Environment and the impact of urbanization on them. (10 Marks)
b. Discuss the Environmental factors affecting the performance of an aquatic ecosystem. (06 Marks)

Module-4

- 7 a. List the major air pollutants and explain their effect on human beings. (08 Marks)
b. Explain the role of an individual in prevention of pollution. (08 Marks)

OR

- 8 a. Explain the working of any two air pollution control equipments mentioning their advantages, disadvantages and application. (08 Marks)
b. What is Hazardous Waste? Explain disposal methods for hazardous wastes. (08 Marks)

Module-5

- 9 a. What are the causes and effects of acid rain? (06 Marks)
b. Write short notes on :
i) The water (Prevention and Control of Pollution) Act, 1974.
ii) The Wildlife Protection Act 1971. (10 Marks)

OR

- 10 a. Explain the affect of nuclear hazards and accidents, with a case study. (08 Marks)
b. Discuss the possible impact of ozone depletion and global warming on the eco system. (08 Marks)

* * * * *

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.