

ODD SEMESTER EXAMINATION, 2023 – 24
IInd year B.Tech. – CS&E/E&EE
Energy and Environmental Engineering

Duration: 3:00 hrs**Max Marks: 100**

Note: - Attempt all questions. All Questions carry equal marks. In case of any ambiguity or missing data, the same may be assumed and state the assumption made in the answer.

Q 1.	Answer any four parts of the following. a) Define primary and secondary air pollutants. b) Write a note on: Chipko Movement. c) What are conventional and non-conventional energy source? d) Define Energy Intensity. e) Discuss the energy efficiency. f) Define ecosystem?	5x4=20
Q 2.	Answer any four parts of the following. a) Distinguish between loudness and annoyance b) What is the role of NGO's in protection for the Environment in India ? c) Discuss the indirect forms of solar energy? d) Discuss the hydrogen storage methods? e) List the abiotic components of an ecosystem. f) What is Geo-thermal energy?	5x4=20
Q 3.	Answer any two parts of the following. a) Explain how nuclear wastes are disposed and the risks involved. b) Explain mechanism of photoconduction in a PV cell? c) Describe the different energy recourses in India and their consumption.	10x2= 20
Q 4.	Answer any two parts of the following. a) Discuss the Constitutional provisions pertaining to control and prevention of pollution. b) Explain how ocean tides are generated and how the power can be tapped? c) Explain the forest ecosystem in detail.	10x2= 20
Q 5.	Answer any two parts of the following. a) Explain how the economic system determines production and consumption. b) Explain clean energy technologies and its importance in sustainable development. c) What are the advantages and disadvantages of Geo-thermal energy?	10x2= 20
