

Roll No.

OLE-24427

B. Tech. 7th Semester (EEE) Examination – April, 2021

RENEWABLE ENERGY RESOURCES AND TECHNOLOGY

Paper : HUM-459-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all. Question No. **1** is *compulsory*. Attempt *four* more question from the sections **A, B, C & D** by selecting at least *one* question from each Section.

1. (i) What are application of non conventional and renewal energy sources ? 5 × 4 = 20
- (ii) Write down points of site selection for Nuclear Power Plant.

- (iii) Write down the classification of Bio Gas Plants material used in Bio Gas Plants.
- (iv) What are the Aspects of Risk & Hazard Health & risk assessment visit to site ?

SECTION – A

2. Discuss Energy Sources and their availability. Explain the Prospects of renewable energy sources in India. 20

OR

3. Explain Green House Gas Effects and Global Environmental awareness in detail. 20

SECTION – B

4. Explain Basic Principle of Solar Energy. Discuss physical Principal of the conversion of solar radiation into heat. 20

OR

5. Explain Basic Principle of wind energy conversion to electric energy. What is Inter connected SYSTEM & discuss applications ? 20

SECTION – C

6. Explain the classification of Bio Gas Plants material used in Bio Gas Plants. 20

OR

7. Explain Ocean thermal electric conversion and discuss Prospects of ocean energy in India. 20

SECTION – D

8. Explain Basic Principle MHD SYSTEM. Derive Power OUTPUT of MHD Generation. 20

OR

9. What is Thermonic power generation ? Explain Management of Fuel in fuel cells. 20
