

Roll No. ....

**24427**

**B. Tech (EE) 7th Semester (Re-appear)**

**Examination – October, 2020**

**RENEWABLE ENERGY RESOURCE & TECH.**

Paper : HUM- 459-F

**Time : 1.45 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 any *three* questions. All questions carry equal marks.

1. (a) Discuss Global Environment Awareness.
- (b) Discuss the advantages of interconnected power system.
- (c) Explain Ocean thermal electric conversion principle.
- (d) Explain the working principle of fuel cell.

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2. Explain different types of Energy sources and their availability in India.
3. Discuss the pollution caused by Power Generation and Green House Gas effect in Detail.
4. Explain the Basic Principle of solar Energy conversion in to heat and discuss solar radiation estimation.
5. Discuss the scheme for Electric Generation by Wind Energy.
6. What do you mean by Bio Mass Energy ? Also Discuss the Biomass Conversion Technology.
7. Discuss the working principle and construction of Geothermal Power Plant.
8. Discuss the Hydrogen as fuel for Generation of Electrical Energy and its application.
9. Explain the working principle and construction of MHD system in detail.