**K.S.R.M COLLEGE OF ENGINEERING (Autonomous), KADAPA**

**B.Tech VIII Sem [R15] ME (A&B/s) II Mid Examinations, JULY 2021**

**Subject:** RENEWABLE ENERGY RESOURCE

**Time:1:30hr Max Marks:30**

**Answer Any Three Questions. First Question is compulsory**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No.** | | **QUESTION** | **Marks** | **CO** | **Blooms Level** |
| 1) | a) | Comment on the origin of geothermal energy. | 2 | **CO** 4 | L2 |
| b) | Compare and contrast different types of tides. | 2 | **CO** 4 | L1 |
| c) | What is Fuel cell? | 2 | **CO** 5 | L1 |
| d) | What is OTEC? | 2 | **CO** 4 | L1 |
| e) | What is bio mass? | 2 | **CO** 3 | L1 |
| 2) | | a) Explain with the schematic diagram, the working of anaerobic digestion showing input material and efficient. (5M)  b) Describe the working of float drum type biogas plant. (5M) | 10 | **CO** 3 | L2 |
| 3) | | a) what do you understand by Geothermal Energy in India. (5M)  b) Origin and distribution of geothermal energy. (5M) | 10 | **CO** 4 | L2 |
| 4) | | a) What is DEC System, advantage and need of DEC. (5M)  b) Explain the DEC of Thermionic conversation system. (5M) | 10 | **CO**5 | L3 |
| 5) | | a) Describe the basic principle of operations of an MHD generator (5M)  b) Advantages and Disadvantages of MHD generating systems (5M) | 10 | **CO 5** | L3 |

Faculty: C.Nagaraja, Asst. Professor , MED