

CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)**Term-End Examination****December, 2019****OEY-002 : RENEWABLE ENERGY TECHNOLOGIES AND THEIR USES***Time : 3 hours**Maximum Marks : 70**Note : Attempt any five questions in all.*

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| 1. | (a) | What are the main features of solar radiation ? How is monthly average of daily total solar radiation on horizontal surface calculated ? | 7 |
| | (b) | Write short note on community Solar Cooker. | 7 |
| 2. | (a) | Explain construction and working of built-in-storage solar water heater. | 7 |
| | (b) | What is Solar Still ? Explain different methods of increasing distillate output of Solar Still. | 7 |
| 3. | (a) | Explain phenomenon of photovoltaic effect. Also explain I-V characteristics of Solar Cell. | 7 |
| | (b) | Classify and explain PV Systems. | 7 |
| 4. | (a) | Explain floating drum biogas plant with neat schematic diagram. | 7 |
| | (b) | What is pyrolysis ? Explain different type of pyrolysis. | 7 |
| 5. | (a) | Write merits and demerits of various drying techniques used in solar drying. | 7 |
| | (b) | Explain solar drying system with neat schematic diagram. | 7 |
| 6. | (a) | Describe different solar passive cooling system. | 7 |
| | (b) | (i) What is green buildings ? What are the advantages of green building ? | 4 |
| | | (ii) Write short note on Daylighting. | 3 |
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