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CRM08

Rev 1.10

<ME>

<11/05/2022>

CONTINUOUS INTERNAL EVALUATION - 1

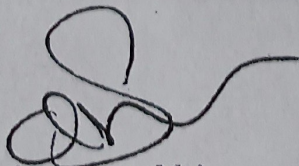
| | | | |
|-----------------|-----------------------------|---|----------------|
| Dept:ME | Sem / Div:VI/ CS, EC, CV | Sub: Non Conventional Energy Sources | S Code:18ME651 |
| Date:18/05/2022 | Time: 9.30- 11.00AM | Max Marks: 50 | Elective:Y |

Note: Answer any 2 full questions, choosing one full question from each part.

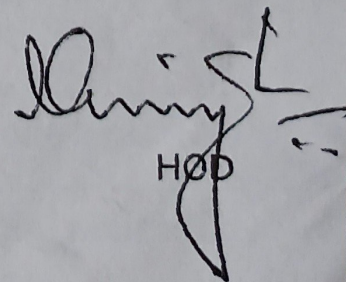
| QN | Questions | Marks | RBT | CO's |
|---------------|--|-------|-----|------|
| PART A | | | | |
| 1 a | Elaborate on India's production and reserves of commercial and non commercial energy sources | 10 | L2 | CO1 |
| b | Explain advantages and limitations of the use of NCES. | 10 | L2 | CO1 |
| c | Write a note on terrestrial and extra terrestrial radiation. | 5 | L2 | CO1 |
| OR | | | | |
| 2 a | Write a short note on Nuclear Energy. Also write the advantages and disadvantages. | 10 | L2 | CO1 |
| b | Write the advantages and Limitations of Wind Power Generation | 10 | L2 | CO1 |
| c | What are the major disadvantages of Tidal Power Plant | 5 | L2 | CO1 |
| PART B | | | | |
| 3 a | With schematic representation explain the mechanism of absorption, scattering, beam and diffused radiation received at earth surface | 10 | L2 | CO1 |
| b | Write a short note on Pyrheliometer | 10 | L2 | CO1 |
| c | Explain solar radiation data | 5 | L2 | CO1 |

OR

| | | | | | |
|---|---|---|----|----|-----|
| 4 | a | What are various instruments used for solar radiation measurement. Explain Pyranometer with a neat sketch | 10 | L2 | CO2 |
| | b | With a neat sketch write the working principle of Sunshine Recorder | 10 | L2 | CO2 |
| | c | Describe briefly the requirements of Non Conventional Energy Sources | 5 | L2 | CO2 |



Prepared by: Sudarshan M L



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