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10ME754

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021

**Non Conventional Energy Sources**

Time: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

**PART - A**

1. a. With sketches, explain the production of oil from oil shale and tar sands. (10 Marks)  
b. Explain the advantages and limitations of use of Non-conventional Energy resources. (10 Marks)
2. a. With a neat sketch, explain the working of pyrheliometer. (08 Marks)  
b. Explain beam, diffuse, reflected and total radiation on a tilted surface. (06 Marks)  
c. Calculate angle made by beam radiation with normal to a flat plate collector on December 1<sup>st</sup> at 9.00AM, Solar time for a location at 28°35'N. The collector is tilted at an angle of latitude plus 10°, with the horizontal and is pointing due south. (06 Marks)
3. a. Describe solar pond for solar energy collection and storage. (10 Marks)  
b. List out the different concentrating solar collectors and explain the working principle with schematic diagram of any one concentrating collector. (10 Marks)
4. a. Explain the effect of following parameters on the collector performance  
i) Collector orientation  
ii) Selective surface coating  
iii) Fluid inlet temperature  
iv) Number of covers (10 Marks)  
b. Data for a flat plate collector used for heating the building are given below:
- | Factor   | Specification                    |
|--|----------------------------------|
| Location and Latitude                              | - Baroda, 22°N                   |
| Day and time                                       | - January 1, 11:30 – 12:30 (IST) |
| Annual average intensity of solar radiation        | - 0.5 Langley/min                |
| Collector tilt                                     | - Latitude + 15°                 |
| Number of glass covers                             | - 2                              |
| Heat removal factor for collector                  | - 0.81                           |
| Transmittance-Absorptance product ( $\tau\alpha$ ) | - 0.811                          |
| Top loss coefficient for collector                 | - 7.88 W/m <sup>2</sup> °C       |
| Collector fluid temperature                        | - 60 °C                          |
| Ambient temperature                                | - 15 °C                          |
- Calculate :
- i) Solar altitude angle  
ii) Incident angle  
iii) Collector Efficiency. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal error lines on the remaining blank pages.  
2. Any revoking of identification, appeal to evaluator and for equating written eg. 41+8 = 50, will be treated as malpractice.

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