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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 1st 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 ² °C |
| Collector fluid temperature | - 60 °C |
| Ambient temperature | - 15 °C |
- Calculate :
- i) Solar altitude angle
ii) Incident angle
iii) Collector Efficiency. (10 Marks)

Non Conventional Energy Vtu Notes File

Guillaume Favre



Non Conventional Energy Vtu Notes File:

Embracing the Melody of Term: An Mental Symphony within **Non Conventional Energy Vtu Notes File**

In a global consumed by monitors and the ceaseless chatter of instant transmission, the melodic beauty and emotional symphony created by the prepared term frequently disappear into the background, eclipsed by the persistent noise and disturbances that permeate our lives. But, set within the pages of **Non Conventional Energy Vtu Notes File** a stunning literary value brimming with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, that interesting masterpiece conducts viewers on an emotional trip, skillfully unraveling the hidden tunes and profound influence resonating within each cautiously crafted phrase. Within the depths of the emotional evaluation, we will discover the book is key harmonies, analyze its enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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