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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 revelling of identification, appeal to evaluator and for equations written eg. 4/3 = 50, will be treated as malpractice.

# Non Conventional Energy Vtu Notes File

**Clifford Lane**



**Non Conventional Energy Vtu Notes File:**

## Reviewing **Non Conventional Energy Vtu Notes File**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Non Conventional Energy Vtu Notes File**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents Non Conventional Energy Vtu Notes File**

1. Understanding the eBook Non Conventional Energy Vtu Notes File
  - The Rise of Digital Reading Non Conventional Energy Vtu Notes File
  - Advantages of eBooks Over Traditional Books
2. Identifying Non Conventional Energy Vtu Notes File
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Non Conventional Energy Vtu Notes File
  - User-Friendly Interface
4. Exploring eBook Recommendations from Non Conventional Energy Vtu Notes File
  - Personalized Recommendations
  - Non Conventional Energy Vtu Notes File User Reviews and Ratings
  - Non Conventional Energy Vtu Notes File and Bestseller Lists

5. Accessing Non Conventional Energy Vtu Notes File Free and Paid eBooks
  - Non Conventional Energy Vtu Notes File Public Domain eBooks
  - Non Conventional Energy Vtu Notes File eBook Subscription Services
  - Non Conventional Energy Vtu Notes File Budget-Friendly Options
6. Navigating Non Conventional Energy Vtu Notes File eBook Formats
  - ePub, PDF, MOBI, and More
  - Non Conventional Energy Vtu Notes File Compatibility with Devices
  - Non Conventional Energy Vtu Notes File Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Non Conventional Energy Vtu Notes File
  - Highlighting and Note-Taking Non Conventional Energy Vtu Notes File
  - Interactive Elements Non Conventional Energy Vtu Notes File
8. Staying Engaged with Non Conventional Energy Vtu Notes File
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Non Conventional Energy Vtu Notes File
9. Balancing eBooks and Physical Books Non Conventional Energy Vtu Notes File
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Non Conventional Energy Vtu Notes File
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Non Conventional Energy Vtu Notes File
  - Setting Reading Goals Non Conventional Energy Vtu Notes File
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Non Conventional Energy Vtu Notes File
  - Fact-Checking eBook Content of Non Conventional Energy Vtu Notes File
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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