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Question Paper Code: 39303

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Elective

Electrical and Electronics Engineering

01UEE903 - NON-CONVENTIONAL ENERGY RESOURCES

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. What is the need for renewable energy sources?
2. List out the applications of renewable energy.
3. What is solar cell?
4. What is solar cooling techniques?
5. List out the safety and environment aspects of wind energy.
6. Define wind power.
7. What is bio-mass?
8. What is bio-mass conversion technology?
9. List out geothermal energy sources.
10. Name various wave energy conversion devices.
11. What is the need for renewable energy sources?
12. State the world energy use.

13. What is flat plate solar collectors?
14. What is solar heating?
15. State environment aspects of wind energy.

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Summarize different reserves of energy resources and their potential achievements in the world. (10)
17. With suitable diagram, explain the operation of various types of solar water heating systems. (10)
18. Explain the working principle of wind energy system with a block diagram. List the procedures to select a site for wind electric generator installation. (10)
19. With diagram explain working of two stage digestion process. (10)
20. With diagram explain single basin tidal power plant . (10)