

Code : 15ME63C

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VI Semester Diploma Examination, Nov./Dec.-2018

RENEWABLE ENERGY RESOURCES

Time : 3 Hours]

[Max. Marks : 100

Note : Answer any **six** from Part – A and **seven** from Part – B.

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PART – A

1. List the advantages and limitations of conventional sources. 5
2. List the applications of flat plate collector. 5
3. List the advantages and disadvantages of wind turbines. 5
4. List the useable forms of biomass and their compositions. 5
5. List the five categories of geothermal sources. 5
6. List the advantages and disadvantages of fuel cells. 5
7. Explain solar energy engineering. 5
8. Explain the concept of lift and drag. 5
9. List the advantages and disadvantages of tidal power. 5

PART – B

10. Explain lead acid battery with a neat sketch. 10
11. Explain the need of conservation of energy. Explain its various aspects. 10
12. Explain different types of solar collectors. 10
13. Explain any two applications of solar energy. 10
14. Explain favourable factors for selection of site for installing wind turbines. 10
15. (a) Explain the terms, biomass and biogas. 5
(b) Compare open and closed cycle MHD system. 5
16. Explain the types of biogas plants with sketches. 10
17. Explain with a neat sketch the basic principle of tidal power generation. 10
18. Explain the factors to be considered for site to install tidal energy. 10
19. Explain with a sketch seeded inert gas system. 10
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