

1344**Code : 15ME63C**Register
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VI Semester Diploma Examination, April/May-2018
RENEWABLE ENERGY RESOURCES

[Max. Marks : 100**Time : 3 Hours]**

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

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PART – A

1. List any five advantages of renewable energy sources. 5
2. Define primary and secondary energy sources. 5
3. List the categories of energy storage systems. 5
4. Define solar collectors and mention the types. 5
5. Mention the types of solar radiation measurement instruments and explain any one. 5
6. What is geothermal energy ? List the geothermal energy sources. 5
7. List the places of Geothermal occurrence in India. 5
8. List any five advantages of fuel cells. 5
9. Explain thermionic emission and work function. 5

PART – B

10. (a) Write Schematic diagram of pumped storage energy system. 5
- (b) Explain lead acid battery with neat sketch. 5

11. (a) Sketch solar water heater and label the parts. 5
(b) List the application of flat plate collector. 5
12. (a) Sketch Box Type Solar Cooker. 5
(b) Explain with neat sketch summer green house. 5
13. (a) List the five advantages and five disadvantages of wind turbine. 5
(b) Explain concept of lift and drag. 5
14. (a) State the main considerations in selecting a site for wind generators. 5
(b) Explain with a neat sketch horizontal axis wind mill. 5
15. (a) Explain with neat sketch fixed dome digester. 5
(b) List the factors affecting biogas generation. 5
16. (a) List the advantages of bio mass energy. 5
(b) Draw the block diagram of MSW incineration plant. 5
17. (a) Explain with neat sketch vapour dominated systems. 6
(b) List the advantages of tidal power. 4
18. (a) Explain with a neat sketch basic thermionic generator. 6
(b) Give the classification of fuel cells. 4
19. (a) Sketch the Schematic diagram of Tidal Power Plant. 5
(b) List the limitations of tidal power. 5
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