

## **Non-Conventional Energy Sources (18ME651)**

1. Explain with a neat sketch the working of Horizontal and Vertical Axis Wind turbine.
2. Explain with a neat sketch the construction and working of wind electric system.
3. List out the advantages and disadvantages of wind energy.
4. Explain in detail the various components of Tidal Power Plants.
5. Give a detailed classification of Wind Power Plants and explain the different types wind power plants.
6. Explain with a neat sketch the working of Open Cycle (Claude Cycle) OTEC Plant.
7. Explain briefly the thermodynamic analysis of Ocean Thermal Energy Conversion.
8. Explain briefly the different types of geothermal power plants.
9. Classify and explain different types of biogas plant.
10. List and explain briefly the factors affecting biogas generation.
11. Explain briefly the biochemical reactions in anaerobic digestion.
12. Explain with a neat sketch the working of Indian Digester (Floating drum type/ Khadi Village Industries Commission Plant (KVIC)).
13. Explain with a neat sketch the working of Janata type of Biogas Plant.
14. List and explain the various sources of hydrogen.
15. Explain with a neat sketch the working of Electrolysis process in hydrogen production.