

QUESTION BANK
SUSTAINABLE ENERGY (18EE0301T)

UNIT-02

1. What is the principles of wind energy conversion.
2. Explain the mechanism of production of local winds
3. Write down the common point for site selection of wind energy system.
4. What are the different types of wind turbine? Explain any one with suitable diagram.
5. With a neat diagram, explain how wind energy can be converted into electrical energy.
6. What are the advantages and disadvantages of establishing wind mills?
7. What are the factors that influences the wind blows. How to select the sight to establish wind power plant?
8. Sketch the diagram of a HAWT, and explain the function of its main components.
9. Derive the power generated from the wind in WECS.
10. What are the different types of generators and power converters in WECS?
11. Explain the major application of wind power.
12. Comment on the environmental impact of wind energy.

UNIT-03

1. What is bio- mass and write few examples of bio mass?
2. What is the main advantage and disadvantage of biomass energy?
3. Explain different type of bio fuels?
4. What are bio-mass energy resources and what is energy yield from each of them?
5. What is the origin of biomass energy? What is its global potential?
6. What is bio-gas? What are the different type of biogas plant?
7. What are the Advantages and disadvantages of biogas plants.
8. What is Biogas digester? Explain with suitable diagram.
9. With a neat diagram of a bio-gas plant write its construction and working?
10. What is the major disadvantage of bio-mass and how can it be overcome?
11. What are the factors affecting on the performance of biogas digester?
12. Explain photosynthesis with the help of suitable diagram.