**Question Bank (I scheme)**

**Name of Course: Renewable energy technologies**

**Subject Code: 22514 Unit Test I**

**Semester: V Programme: CH**

**Unit 1**

**Two marks questions –**

1. Write the concept of wind energy.
2. State the applications of wind energy.
3. State the lift and drag principle of wind turbines.
4. Give the classification of wind turbines.
5. What do you mean by cut-in and cut-out wind speeds.
6. Define nominal and rated power of wind power.

**Four marks questions –**

1. Write the construction and working of wind turbine.
2. Give the construction and working of wind mill.
3. Describe working of grid connected wind turbine.
4. Explain the applications of wind turbine for water pump.
5. Describe the functions of specified wind turbine components.

**Unit 2**

**Two marks questions –**

1. Give the concept of solar energy.
2. Give the types of batteries used in solar PV systems.
3. Write the uses of solar energy.
4. Write applications of hybrid wind-solar systems.
5. Write the features of roof top solar system.

**Four marks questions –**

1. Write the sources and applications of solar energy.
2. Explain the construction and working of solar water heating system.
3. Describe the construction and working of solar photovoltaic system.
4. Give brief idea regarding solar distillation and cooling in chemical industry.
5. Describe the features of the given component solar power plant.
6. Describe the features hybrid wind solar system.