

**Unit 1– Introduction of energy sources and its conversion**

1. Hydropower is a conventional form of energy  
a. True b. false
2. Which of the following is not the renewable form of energy?  
a. Solar  
b. Hydropower  
c. Tidal  
d. All of the above.  
e. None of the above.
3. A source of energy is known as renewable source  
a. Fossil fuel  
b. Nuclear  
c. CNG  
d. All of the above.
4. Which of the following energy is converted into electricity in a hydro power plant?  
a. Nuclear energy  
b. Potential energy of water  
c. Thermal energy  
d. All of the above.  
e. None of the above.
5. Solar energy is preferred because it is  
a. Free from pollution  
b. Available in abundance  
c. No fuel transportation  
d. Can be converted in power  
e. All of the above.
6. A solar collector is a device for collecting solar radiation on a surface called absorber and transfer this energy to another fluid.  
a. True b. False
7. The function of a dam / reservoir in hydro power plant is to provide high working head.  
a. True b. False
8. Biogas is produced by anaerobic decomposition of organic waste by suitable bacteria.  
a. True b. False.
9. The energy which is not derived from the sun is  
a. Biomass  
b. Fossil fuels  
c. Nuclear energy  
d. Geothermal energy.
10. Bio fuels can be produced from  
a. Biomass  
b. Agriculture waste  
c. Municipal garbage  
d. All of the above.
11. The function of steam nozzles is to convert the pressure energy into  
a. Kinetic energy  
b. Mechanical energy  
c. Thermal energy  
d. Power
12. Steam turbine is used to produce \_\_\_\_ energy by expanding high pressure steam.  
a. Kinetic  
b. Mechanical  
c. Heat  
d. Power
13. A generator converts the  
a. Mechanical energy into electrical energy.  
b. Thermal energy into electrical energy  
c. Electrical energy into mechanical energy.  
d. Pressure energy into Kinetic energy
14. The control rods are used to regulate the energy released by absorbing.  
a. Neutrons  
b. Heat

- c. Coolant  
d. Nuclear energy
15. In hydro electrical plants the ... energy of water is used to move hydraulic turbine.  
a. Potential Energy  
b. Kinetic energy  
c. Both option a and b.
16. Function of a boiler is to generate ..... on expense of heat energy supplied.
17. Moderators in a nuclear reactor are used to reduce the speed of fast moving neutrons without .....
18. Dam is used to increase the storage capacity of.. ... and increase the working.. ... of the plant.
19. Function of surge tank is protect the .... due to sudden variations of flow of water.
20. Hydraulic turbines are used to convert the .....energy of water into.... energy

**SOLUTION**

Q. No.	Solution	Q. No.	Solution
1	b	11	a
2	e	12	b
3	b	13	a
4	b	14	a
5	e	15	a
6	True	16	Steam
7	True	17	Absorbing
8	True	18	Reservoir, Head
9	c	19	penstock
10	d	20	Kinetic, Mechanical