

**1. The process by which energy is produced in the sun is**

- (a) Nuclear fission
- (b) Nuclear fusion
- (c) Both nuclear fusion and fission
- (d) Combustion of hydrogen

**2. An ideal source of energy should have**

- (a) higher calorific value
- (b) easy transportability
- (c) easy accessibility
- (d) All of these

**3. Which of the following organism produces biogas from cow dung slurry in the biogas plant?**

- (a) Aerobic bacteria
- (b) anaerobic bacteria
- (c) protozoa
- (d) fungi

**4. Solar cells are made of**

- (a) germanium
- (b) silicon
- (c) silver
- (d) aluminum

**5. Which is the ultimate source of energy?**

- (a) Water
- (b) Sun
- (c) Uranium
- (d) Fossil fuels

**6. Which of the following gases is the main constituent of natural gas?**

- (a) Methane
- (b) Ethane
- (c) Propane
- (d) Butane

**7. Spent slurry (Bio-waste after obtaining biogas) is used as**

- (a) fuel
- (b) manure
- (c) food for livestock
- (d) used again for generating biogas

**8. In hydro power plant**

- (a) potential energy possessed by stored water is converted into electricity
- (b) kinetic energy possessed by stored water is converted into potential energy
- (c) electricity is extracted from water
- (d) water is converted into steam to produce electricity

**9. Choose the incorrect statement.**

- (a) We are encouraged to plant more trees so as to ensure clean environment and also provide biomass fuel.
- (b) Gobar gas is produced when crops, vegetable wastes, etc., decompose in the absence of oxygen.
- (c) The main ingredient of biogas is ethane and it gives a lot of smoke and also produces a lot of residual ash.
- (d) Biomass is a renewable source of energy.

**10. Solar energy can be directly converted to electrical energy by which of the following devices?**

- (a) Solar cooker
- (b) solar heater
- (c) solar cell
- (d) solar geyser