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Question 1. Which of the following is a non-renewable source of energy?

- (a) Wood
- (b) Sun
- (c) Fossil fuels
- (d) Wind

Answer. (c)

Explanation: Sources of energy which are present in limited amount and can't be recycled once used are known as non-renewable sources of energy. Fossil fuels are non-renewable source of energy.

Question 2. Acid rain happens because

- (a) sun leads to heating of upper layer of atmosphere
- (b) burning of fossil fuels release oxides of carbon, nitrogen and sulphur in the atmosphere
- (c) electrical charges are produced due to friction amongst clouds
- (d) the earth atmosphere contains acids

Answer. (b)

Explanation: The oxides of carbon, nitrogen and sulphur that are released by burning fossil fuels form acidic oxides. These lead to acid rain which affects our water and soil resources.

Question 3. Fuel used in thermal power plants is

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

Answer. (d)

Explanation: Large amount of fossil fuels are burnt every day in power stations to heat up water to produce steam which further runs the turbine to generate electricity.

Question 4. In a 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

Answer. (a)

Explanation: The water stored in dams has potential energy associated with it. Potential energy possessed by stored water is converted into electricity

Question 5. Which is the ultimate source of energy?

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

Answer. (b)

Explanation: Sun is the ultimate source of energy as many of the sources (like wind energy etc) ultimately derive their energy from the Sun.

Question 6. Which one of the following forms of energy leads to least environmental pollution in the process of its harnessing and utilisation?

- (a) Nuclear energy
- (b) Thermal energy
- (c) Solar energy
- (d) Geothermal energy

Answer. (c)

Explanation: Solar energy leads to least environmental pollution in the process of its harnessing and utilization.

In case of nuclear energy, the major concerns of pollution are while storage and disposal of spent fuels where there is always a risk of leakage of radiation.

In case of thermal energy, enormous amount of air pollution is produced.

Even in case of geothermal energy a little amount of pollution is produced.

Question 7. Ocean thermal energy is due to

- (a) energy stored by waves in the ocean
- (b) temperature difference at different levels in the ocean
- (c) pressure difference at different levels in the ocean
- (d) tides arising out in the ocean

Answer. (b)

Explanation: The temperature difference between the water at the surface and water at depths up to 2 km is 20 K (20°C) or more. The warm surface-water is used to boil a volatile liquid like ammonia. The vapours of the liquid are then used to run the turbine of generator. The cold water from the depth of the ocean is pumped up and condenses vapour again to liquid.

Question 8. The major problem in harnessing nuclear energy is how to

- (a) split nuclei
- (b) sustain the reaction
- (c) dispose of spent fuel safely
- (d) convert nuclear energy into electrical energy

Answer. (c)

Explanation: The major hazard of nuclear power generation is the storage and disposal of spent or used fuels – the uranium still decaying into harmful subatomic particles (radiations). Improper nuclear-waste storage and disposal result in environmental contamination.

Question 9. Which part of the solar cooker is responsible for greenhouse effect?

- (a) Coating with black colour inside the box
- (b) Mirror
- (c) Glass sheet
- (d) Outer cover of the solar cooker

Answer. (c)

Explanation: Solar cookers are covered with a glass plate which traps infrared radiations (heat) from sunlight and does not allow them to escape. In other words we can say that it provides greenhouse effect.

A black surface absorbs more heat as compared to a white or a reflecting surface under identical conditions.

Solar cookers achieve a higher temperature by using mirrors to focus the rays of the Sun.

Question 10. The main constituent of biogas is

- (a) methane
- (b) carbon dioxide
- (c) hydrogen
- (d) hydrogen sulphide

Answer. (a)

Explanation: Bio-gas is an excellent fuel as it contains up to 75% methane. It burns without smoke, leaves no residue like ash in wood, charcoal and coal burning. Its heating capacity is high. Bio-gas is also used for lighting.