



PAGE 161

Q1.

Hydrogen is a cleaner fuel because burning of hydrogen produces only water, which is harmless; but burning of CNG produces CO_2 and water. CO_2 produces greenhouse effect.

Q2.

CFL is more energy efficient because it wastes much less energy as heat than filament type electric bulb.

Q3.

Coal - 200 years

Petroleum - 40 years

Natural Gas - 60 years

Q4.

Solar cooker; pressure cooker

Q5.

Various factors to be kept in mind while choosing a source of energy are:

1. the ease of extracting energy from that source
2. the cost of extracting energy from that source
3. the efficiency of technology available for extracting energy from that source
4. the damage to environment caused by using that source

Q6.

No. No source of energy is pollution free.

For e.g., the use of wind generators is pollution-free but the processes involved in making it must have damaged the environment in some way

Q7.

The environmental consequences of the increasing the demand for energy are:

- (i) The combustion of fossil fuels is producing acid rain and damaging plants, soil and aquatic life.
- (ii) The combustion of fossil fuels is increasing the green house effect.
- (iii) Nuclear power plants are increasing radioactivity in the environment.
- (iv) Construction of hydro-power plants is disturbing the ecological balance.

Q8.

Steps for reducing the energy consumption:-

- (i) Switch off all the lights, fans, TV and other appliances when not needed.
- (ii) Use of biogas as cooking fuel should be encouraged.
- (iii) Bicycles should be used for short distances to save precious fuels like petrol.
- (iv) Solar cookers should be used to cook food.

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