



Question-7

What kind of mirror - concave, convex or plane - would be best suited for use in a solar cooker? Why?

Solution:

Plane mirror would be best suited for use in a solar cooker. A plane mirror is used as a reflector. The reflector is used to increase the area over which the solar energy is collected so that more and more heat rays of the sun may enter the solar cooker.

Question-8

What are the limitations of the energy that can be obtained from the oceans?

Solution:

The energy from the oceans can be obtained mainly in three forms,

- (a) Tidal energy
- (b) Ocean waves energy
- (c) Ocean thermal energy

The energy potential from sea is quite large, but efficient commercial exploitation is difficult.

Question-9

What is geothermal energy?

Solution:

'Geo' means 'earth' and 'thermal' means 'heat'. Thus the geothermal energy is the heat energy from the hot rock present inside the earth. This heat can be used as a source of energy to produce electricity.

Question-10

What are the advantages of nuclear energy?

Solution:

The advantages of nuclear energy is as follows,

- (a) It generates electricity.
- (b) Disease like cancer can be treated.
- (c) It helps for the improvement in the agriculture and industry.

Question-11

Can any source of energy be pollution-free? Why or why not?

Solution:

Yes, Solar energy does not cause any pollution. Solar cells make use of the 'everlasting solar energy' and their use does not produce any environmental pollution.

Question-12

Hydrogen has been used as a rocket fuel. Would you consider it a cleaner fuel than CNG? Why or why not?

Solution:

Yes, hydrogen is a cleaner fuel than CNG because of its very high calorific value, hydrogen is an extremely good fuel.

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