

**Chapter - 14**  
**Sources of Energy**  
**(1 Mark Questions)**

**Q.1 In the given flow chart of energy conversion during hydroelectric power generation, fill in the blanks with appropriate answer**



Ans - Dynamo.

**Q.2 Consider two solar cooker, one covered with a plane glass plate and other kept open. Which of the two cooker would be more efficient and why?**

Ans - Solar cooker with covered glass slab, as it will show green house effect.

**Q.3 Give one reason how increasing dependence on nuclear power generation is a threat for future generation?**

Ans - Radiation emitted during leakage can change the genetic arrangement or disposal to nuclear waste.

**(2 Marks Questions)**

**Q.1 Give two ways in which animal dung can be used as fuel. Which way is better and why?**

Ans - As dung cake and as Biogas.. Biogas is better because it spreads less pollution and has more calorific value.

**Q.2 The wind velocity at three places A,B and C are 5Km/hr,15Km/hr,10Km/hr respectively. Which is the most suitable place for installing wind mill & why?**

Ans - B, Maximum velocity required is 15km/h. At lower speed it will not work. At very high speed it may break the blades.

**Q.3 What are two advantages of charcoal over wood as fuel?**

Ans -High calorific value & pollution free

**Q.4 How difference in temperature helps to harness energy from ocean?**

Ans - The difference in temperature helps to obtain energy in ocean- thermal – energy conservation plants, which operate for temperature difference of 20° C or more. The warm surface water is used to boil a volatile liquid . The vapours of the liquid are used to run the turbine of generator , the cold water from the depth of the ocean is pumped up and condense vapour again to liquid.

**Q.5 Mention any two reasons, why wood is not preferred as fuel.**

Ans - (i) Burning wood causes pollution  
- (ii) Excess use of wood would cause deforestation.

**(3 Marks Questions)**

**Q.1 Write three reasons why construction of Tehri Dam on river Ganga and Sardar Sarovar project on river Narmada is opposed by local people and environmentalist?**

Ans - (i) Rehabilitation problems, loss of agricultural land.  
(ii) Disturbance of ecological balance.  
(iii) Forming of green house gases due to decomposition of plant in water.

**Q.2 Write three environmental consequences of the various source of energy we used?**

Ans - Green house effect, improper use of natural resources, pollution.