

QUESTION BANK

Ch – Sources of energy

One mark question

Q1 What is geothermal energy?

Q2 State two merits of wind energy.

Q3 Mention any four areas where solar cells are being used as a source of energy.

Q4 Name any one element that is used in making solar cells. On what property of the element is this use based?

Q5 Construction of dams submerges large areas of forests, how does this contribute to the greenhouse effect?

Q6 Name two semiconductor materials that are used for making solar cells.

Q7 What is tidal energy?

Q8 What steps would you suggest to minimise environmental pollution caused by burning of fuels?

Q9. What is ocean thermal energy?

Q10 Name the residue obtained when wood is burnt in a limited supply of air.

**Two mark questions**

Q1. State four characteristic of ideal fuel.

Q2. State two advantages and two limitations of solar energy.

Q3. Define the term fuel. What are primary and secondary fuels?

Q4. Give the disadvantages of constructing big dams across the river. How does construction of dams across the river get linked with production of greenhouse gasses?

Q5. Why is it not possible to make use of solar cell to meet all our energy needs? State at least three reasons to support your answer.

Q6. Write any two advantages of using biogas.

Q7. Why is biogas a better fuel than animal dung cakes?

Q8. Why is the the use of wood as a fuel not advised although forests can be replenished?

Q9. Give two advantages and two hazards of nuclear energy.

Q10. Why are fossil fuels are known as non-renewable source of energy?

### 3 mark questions

Q1 What is hydroelectricity? State two advantages of producing hydroelectricity.

Q2 Explain , how wind energy can be used to generate electricity. Illustrate your answer with the help of a labelled diagram.

Q3 a) What is a solar cell?

b) Name the semiconductor material which is usually used for making solar cells.

c) Write two uses of solar cells.

Q4 a) What is the difference between a thermal power plant and a hydro power plant?

b) Which of the two causes serious air pollution and how?

Q5 a) What is geothermal energy?

b) Explain, how geothermal energy is used to generate electricity.

c) State one advantage of geothermal energy.

Q6 a) Name the major component of biogas.

b) Describe the working of a biogas plant with the help of a labelled diagram.

Q7a) Explain how tidal energy can be used to generate electricity.

b) Why is tidal energy not likely to be a potential source of energy?

Q8a) What is biomass? Give three examples of biomass.

b) Name the biomass which is still widely used as a source of heat energy in many household of our country.

Q9a) What is meant by ocean thermal energy? Explain how ocean thermal energy can be used to generate electricity.

b) What are the limitations of energy that can be harnessed from the sea?

Q10 What are the advantages and disadvantages of using nuclear fuel for generating electricity?

