

ASSIGNMENT (PHYSICS)
CLASS X
SOURCES OF ENERGY

1. Energy from various sources is considered to have been derived from the sun. Do you agree? Justify your answer.
2. Why is there a need for harnessing non-conventional sources of energy? How can energy be harnessed from the sea in different ways?
3. How is hydroelectric power generated?
4. What are the disadvantages of hydel power plants?
5. What is coke? What does it contain?
6. Solar energy can be harnessed directly as well as indirectly .Give two examples of each type.
7. Why are many thermal power plants set up near coal or oil fields?
8. Electricity generated by a windmill is another form of solar energy. Explain?
9. Out of two solar cookers, one was covered by a plane glass slab and the other was left open .Which of the two solar cookers will be more efficient and why?
10. What are the environmental consequences of using fossil fuels? Suggest the steps to minimise the pollution caused by various sources of energy including non-conventional sources of energy.
11. What is bio-mass? How it can be used with better efficiency?
12. Name the major fuel component of biogas. What are its other combustible components?
13. What is anaerobic decomposition?
14. Why is bio-gas considered as an ideal fuel for home?
15. What is a dam? State two advantages and two disadvantages of constructing a dam.
16. What are the hazards of nuclear power generation? Describe safety measures taken to protect ourselves from these hazards.