

# BHARATH COACHING CENTRE

10<sup>th</sup>CBSE

Source of Energy

Total: 40

Physics

Science

Time: 1.00 hrs

## SECTION – A

6 x 1 = 6

1. Chief constituent of natural gas is  
a. Methane    b. Ethane    c. Butane    d. Propane
2. Most sources of energy we use represent stored solar energy. Which of the following is not derived from sun's energy?  
a. Geothermal energy    b. Wind energy    c. Fossil fuels    d. Bio-mass
3. Name two renewable sources of energy.
4. Name two components of solar radiation that are not visible to us.
5. Name the process that converts solar energy into chemical energy in nature.
6. Name the main constituent of biogas.

## SECTION – B

5 X 2 = 10

7. Why is it not possible to make use of solar cells to meet all our energy needs? State atleast two reasons to support your answer.
8. Why can wind energy farms be established only at specific locations? Give reasons to support your answer.
9. State the advantages of obtaining biogas from animal dung and bio-wastes.
10. What constitutes a good source of energy?
11. Why are fossil fuels classified as non-renewable sources of energy?

## SECTION – C

3 X 3 = 9

12. Why is charcoal considered as a better fuel than wood? What are the disadvantages of converting wood into charcoal?
13. Explain the principle behind working of the windmill.
14. Define i) LPG ii) CNG

## SECTION – D

5 X 3 = 15

15. a. Explain how tidal energy can be used for generating electricity.  
b. State two advantages and disadvantages of geothermal energy.
16. With the help of a diagram, explain the construction and working of a box type solar cooker.
17. Describe the steps involved in obtaining bio-gas and explain what is meant by anaerobic decomposition.