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CBSE 10th Sources of Energy

Unsolved Paper

SECTION-A

Q.1. Solar cells are made of

- (a) metals
- (b) insulator
- (c) semi conductors
- (d) none of these

Q.2. Radiations which are harmful to the living organisms are

- (a) Infrared radiation.
- (b) ultraviolet radiations
- (c) Visible radiation.
- (d) micro waves

Q.3. A solar cooker may not cook food if.

- (a) Interior of the box and the container of food are perfectly shining.
- (b) Glass sheet over the box is not closed.
- (c) Solar cooker is placed in the shade.
- (d) All the above.

Q.4. The main constituent of CNG is

- (a) butane
- (b) methane
- (c) ethane
- (d) propane

Q.5. Which of the following is not a bio mass energy source?

- (a) gobar gas
- (b) coal
- (c) wood
- (d) nuclear energy

Q.6. Which of following is more environment friendly?

- (a) Burning of coal
- (b) burning of fire wood
- (c) burning of charcoal
- (d) Burning of diesel.

Q.7. Although charcoal is a clean and a better source of heat energy yet it cannot be used as a domestic fuel because it

- (a) cause environmental pollution
- (b) produce less heat energy
- (c) cannot be stored easily
- (d) is expensive fuel

Q.8. Fusion reaction is also known as

- (a) chemical reaction
- (b) elastic scattering
- (c) thermonuclear reaction
- (d) photo nuclear reaction

Q.9. India exploded her first underground nuclear device at

- (a) Ranchi
- (b) Kota
- (c) Jaipur
- (d) Pokhran

Q.10. Major problem in harnessing nuclear energy is to

- (a) split heavy nucleus
- (b) sustain nuclear reactions
- (c) Convert nuclear energy into electricity
- (d) dispose off spent fuel safely.

SECTION-B

Q.11. Define fuel. List any two characteristics that you would look for in a good fuel.

Q.12. Hydro power is a renewable source of energy. Justify.

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Q.13. Write two qualities of an ideal source of energy?

Q.14. What are the advantages of nuclear energy?

Q.15. Name two activities in our daily life in which solar energy is used?

Q.16. Write two advantages of using solar cooker?

Q.17. Suggest two ways to reduce energy consumption?

SECTION-C

Q.18 Why do people oppose the construction of Tehri Dam on the river Ganga and Sardar sarover project on the river Narmada.

(Or)

Mention three disadvantage of producing hydroelectricity by constructing the dams.

(Or)

List any three ways in which construction of dams for production of electricity adversely affects the environment of that place.

Q.19. Meena father works with a company that builds dams. Once he took her to the site where a dam was being built. Meena saw a group of people sitting there and shouting slogans against the building of dam. She talked the group of people and asked them about their problems and then discussed it with her father. She then tried to convince the people to talk with the authorities and come to an amicable solution. The discussion was successful. Meena father was very proud of his daughter. Now answer the following questions:

- (i) Why was Meena father proud of his daughter?**
- (ii) Why was the group of people protesting against the building of dam?**
- (iii) Meena contribution to the peaceful resolution of the conflict proved to boon for many citizens of the country. How?**

Q.20. Bio gas is an excellent fuel. Justify the statement by giving two reasons. Mention the main constituents of bio gas along with its percentage.

Q.21. What is geothermal energy?

Q.22. What are the advantages of nuclear energy?

Q.23. Why are we looking at alternate sources of energy?

Q.24. (a) Define tidal energy.

(b) Explain how the tidal energy is harnessed and write one limitation of the use of tidal energy.

SECTION-D

Q.25. A student constructed a box type solar cooker. He found that it did not work efficiently. What could this be due to? Give any four possible mistakes in the construction and operation of the solar cooker. What maximum temperature can ordinarily be reached inside a solar cooker?

Q.26. (i) What is biogas? Name two main combustible components of biogas?

(ii) What is the use of spent slurry in a biogas plant?

(iii) Name the microorganisms responsible for the fermentation of slurry in the digester?

Q.27. What are the Limitations of extracting energy from:

(i) the wind? (ii) waves? (iii) tides?

Q.28. Nikhil and Neha went to a remote village in Kerala to meet their grandmother. They were surprised to see a biogas plant in Mr. Nair's house in the neighbourhood. There were plenty of livestock and the household used cooking gas from the plant. Also their farms had rich vegetation. They contacted sarpanch of the village and convinced him to set up a biogas plant for village community.

(a) Mention the values displayed by Mr. Nair, Nikhil and Neha.

(b) Explain the possible arguments given by Nikhil and Neha to the sarpanch to convince him to set up community biogas plant.

Q.29. Solar cooker takes more time as compared to the LPG to boil potato or rice, yet Kunal uses solar cooker for such type of cooking:

(i) Why does Kunal use Solar cooker instead of LPG? Give reasons for your answer.

(ii) Name the phenomenon which is responsible for obtaining high temperature in solar cooker.

Q.30. Manoj's father works in a nuclear power reactor. He asked his father to take him for a visit to nuclear power reactor. But his father was not keen to take him there. Now answer the following questions:

- (i) What could be the possible reason of Manoj's father not taking him to the nuclear power reactor?**
- (ii) Write one advantages and one disadvantage of setting up a nuclear power reactor. .**



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