2. Write short answers to the following questions.

a. What is energy ?

Ans Energy is the capacity of doing work.

b. Write one example of each renewable and

non-renewable source of energy.

Ans. The one example of renewable and

Non-renewable source of energy are as follows

1. Renewable source of energy- Solar energy
2. Non-renewable source of energy- Coal

c. How is heat produced in a body? what are the

uses of heat energy ?

Ans. Heat is produced in our body when food is broken down during respiration.

-The uses of heat energy are as follows-

1. To cook food

2. To dry clothes

d. Why do we need light ? What is the main source of light?

Ans. We need light to see things around us.

* The main source of light is the sun.

e. Why is coal called non-renewable source of energy?

Ans. Coal is called non-renewable source of energy because they took a lot of time to form.

f. What is magnet? Where do we use a magnet?

Ans. A magnet is an object that attracts iron or metal.

-We use magnets in compasses, fridge doors, motors, and speakers.

g. How is sound produced?

Ans. Sound is produced by the vibration of object.

h. What is motion energy? Give two examples of sources of motion energy.

Ans. Motion energy is the energy of an object when it is moving.

Examples: Moving car, flowing water.

I. write any four ways of saving energy.

Ans. The four ways of saving energy are as follows:-

1. Switch off lights and fans when not in use.
2. Use energy-saving bulbs.
3. Use public transport.
4. Turn off electrical devices when not needed.

4. Identify the wrong statements and rewrite them after correcting them:

a. Energy is not necessary for us.

Correct: Energy is necessary for us.

b. We can use energy as much as we like.

Correct: We should use energy carefully.

c. We should not switch off the fan of our classroom when there are no students in the class.

Correct: We should switch off the fan of our classroom when there are no students in the class.

d. We should use firewood mostly as the sources of fuel.

Correct: We should use firewood less as the source of fuel.

e. Renewable sources of energywilbe used up soon.

Correct: Renewable sources of energy will not be used up soon.

5. short answer questions.

a. What are the source or energy?

Ans Those substance from which we can generate energy to the different activities are called sources of energy.

b. Name any two renewable source of energy.

Ans The two renewable source of energy are:

1. Solar energy. 2. Wind energy

c. Name any two non-renewable source of energy.

Ans The two non-renewable source of energy are :

1. Coal. 2.Petrol

d. Write any one effect of misuse of energy.

Ans The one effect of misuse of energy is environmental pollution.

e. Suggest any one method to reduce energy crisis.

Ans one method to reduce energy crisis is using renewable sources .

6. Short answer questions.

a. Write any two difference between renewable and non-renewable source of energy.

Ans The two difference between renewable and non-renewable source of energy are:

|  |  |
| --- | --- |
| Renewable source of energy | Non- renewable source of energy |
| It Can be regenerated naturally in a short period. | It takes millions of years to form and cannot be quickly replaced |
| It can be used for long term. | It cannot be used for long term. |

b. What is energy conservation? Write any two methods to conserve energy.

Ans Energy conservation is the careful use of energy to save resources for the future.

- The two method to conserve energy are:

1. Switch off electrical devices when they are not in use.

2.Use devices that need less electricity.

c. Write any three effects of excessive use of energy.

Ans The three effects of excessive use of energy are:

1. It causes pollution.
2. It uses up natural resources.
3. It makes the Earth hotter.

d. List any three causes of misuse of energy.

Ans The three causes of misuse of energy are:

1. Keeping lights and fans on unnecessarily.
2. Using old machines .
3. Using large amount of fuel.

9. **Look at the picture and answer the questions.**

a. Write any three habits given in the pictures that shows misuse of energy.

**Ans** The three habits in the pictures that misuse energy:

1. Using too many electric lights in the daytime.
2. Keeping taps open and wasting water.
3. Cutting down trees.

b. Mention any two habits in the pictures that conserve energy.

**Ans** The two habits in the pictures that conserve energy:

1. Using windmills to make electricity.
2. Planting trees.

10. Which type of fuel is given in the pictures is better for environment and why? Give two reason.

**Ans** Biogas (right side picture) is better for the environment.

Two reasons:

1. It does not make smoke and keeps the air clean.
2. It is made from waste, so it does not harm nature