Sources of Energy

Check Your Concepts

Q.1. *Match the following*:

Directions: *Given below are two columns - column I and column II. Match the two columns and write the correct answer in the given blank grid.*

1. Match the following:

Column – I		Column – II	
(A)	Source of energy	**(i)**	Energy obtained by movement of air.
(B)	Non-renewable resources	**(ii)**	Energy released by uranium.
(C)	Nuclear energy	**(iii)**	Coal, gas/ wind, water/ petroleum and sunlight.
(D)	Solar energy	**(iv)**	Sources which cannot be replenished after usage.
(E)	Wind energy	**(v)**	Energy obtained from sun.
(F)	Hydro-electricity	**(vi)**	Energy generated by moving water.

Q.2. *Fill in the blanks*:

Directions: *Complete the following statements with an appropriate word / term to be filled in the blank space(s).*

1. _____ exists in different forms.

2. Energy cannot be created nor _____.

3. Things that an moving have _____ energy.

4. The higher above the ground an object is, the _____ is gravitational potential energy.

5. _____ energy is stored in food, fuels and batteries.

6. _____ energy is the form of energy that enables us to see.

7. Light and sound energy can be used to _____.

8. Energy can be converted from _____ form to _____.

9. The earth's most important source of energy is the _____.

10. _____ sources of energy do not run out.

Q.3. *True / False*:

Directions: *Read the following statements and mark your response as true or false. Rewrite the correct statement(s) in the box provided below, in case of false statement(s).*

1. Coal is a renewable source of energy. **[ ]**

2. Energy can be converted from one form to another. **[ ]**

3. Energy can be created nor destroyed. **[ ]**

4. Heat is the form of energy that makes us feel warm or hot. **[ ]**

5. Green plants convert chemical energy into light energy. **[ ]**

6. Solar cell is a device which converts light energy into electrical energy. **[ ]**

Q.4. *Multiple choice questions*:

Directions: *Read the following questions and choose the answer that best answer the questions.*

1. The ultimate energy source for the Earth is

(a) Electricity (b) Natural gas (c) The Sun (d) Plants

2. A non-renewable energy resource

(a) Can be plugged in and recharged (b) Will eventually run out

(c) Will not work for new appliances (d) Can be used over again

3. Which of these is not a non-renewable energy resource?

(a) Natural gas (b) Coal (c) Oil (d) Wind

4. Nuclear fuel is

(a) Non-renewable (b) Renewable (c) Burnt (d) Eco-friendly

5. Humans obtain energy from

(a) Coal (b) Waves (c) Food (d) A socket

6. Energy is measured in

(a) Newtons (b) Pascals (c) Joules (d) Grams

7. Which of the following form of energy causes snow to melt?

(a) Heat energy (b) Potential energy

(c) Kinetic energy (d) Electrical energy

8. The source of geothermal energy is

(a) Mountainous stream (b) Underground hot springs

(c) Volcanic rocks (d) Fast flowing rivers

9. Tidal power depends on the tides that are caused by

(a) Gravitational pull of moon. (b) Rotation of earth.

(c) Gravitational pull of earth. (d) Orbiting of earth around the Sun.

Q.5. *Subjective questions*:

1. Define fuel and give some examples of solid, liquid and gaseous fuel?

Ans. …….

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2. Why is food an important source of energy?

Ans. …….

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3. Sohan and Mohan were feeling cold. So they rubbed their hand vigorously. Why did they do so. Explain your answer.

Ans. …….

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4. Man uses light energy to warn people of dangers. Give two examples.

Ans. ……

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5. Look at the diagram shown below. The diagram shows a wrist watch.

Complete the passage on working of wrist watch using appropriate terms.

The watch runs on a quartz battery. The battery stores _____ energy. If the watch is functioning properly, then this stored energy can be converted into _____ _____ and _____ energy.

Ans. ……

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6. The given table illustrates forms of energy. Complete the table using appropriate terms given below.

Heat, Sound, Electrical, Light, Kinetic, Gravitational, Chemical