

Half Yearly Examination 2016-2017

Std. : VI
Subject : SCIENCE

Full Marks : 80
Time : 2 Hrs.

SECTION - A (Attempt all questions)

1. Fill in the blanks : (Do not copy the questions).

[10]

- (i) The energy a body has due to its motion is called _____.
- (ii) _____ is the ability to do work.
- (iii) The time between the birth and death of an organism is called its _____.
- (iv) Iron combines with oxygen and _____ of the air to form rust.
- (v) The ability to respond to stimuli is called _____.
- (vi) _____ changes are those which take place at fixed intervals of time.
- (vii) The higher the temperature the _____ is the evaporation of a liquid.
- (viii) During photosynthesis plants, absorb solar energy to convert carbon dioxide and water into _____ and _____.
- (ix) All living beings are made up of _____.
- (x) Plants throw out gases through minute pores present in their leaves called _____.

2. Correct the False statements —

[10]

- (i) All matter is made of cells.
- (ii) The mass of a substance undergoing a chemical change is not altered.
- (iii) The potential energy of a body depends on its mass and its speed.
- (iv) The SI unit of work is Newton.
- (v) The energy stored in a battery is called heat energy.
- (vi) No new substances are formed in a chemical change.
- (vii) The lower the pressure of the atmosphere the lower is the evaporation of a liquid.
- (viii) When a solid dissolves in a liquid, the volume of the liquid changes.
- (ix) Rusting is a physical change.
- (x) The process by which organisms break down food to release energy in the absence of oxygen is called aerobic respiration.

3. Differentiate between the following :—

[10]

- (i) Physical and chemical change.
- (ii) Living and non-living
- (iii) Plants and animals
- (iv) Unicellular and multicellular organisms.
- (v) Movement and locomotion.

- 4. Give 2 examples of each :—** **[10]**
- (i) Unicellular organisms _____ , _____
- (ii) Desirable changes _____ , _____
- (iii) Materials that explode _____ , _____
- (iv) Fossil fuels _____ , _____
- (v) Physical changes _____ , _____
- 5. Match the following :—** **[10]**
- | | |
|--------------------|---------------------|
| (i) Burning | a current of air |
| (ii) draught | sound energy |
| (iii) animals | locomotion |
| (iv) voice box | chemical energy |
| (v) fruits | heat and light |
| (vi) Thermal power | irreversible change |
| (vii) solute | force x distance |
| (viii) digestion | throwing out waste |
| (ix) work | sugar |
| (x) Excretion | Energy using heat |
- 6. Answer the following questions :—** **[20]**
- (i) What is sublimation ? Give an example of a substance that sublimes. [2+1]
- (ii) Write down two conditions that help evaporation. [2]
- (iii) What is fermentation ? [2]
- (iv) Explain with the help of an example of physical and chemical changes taking place simultaneously. [3]
- (v) How is bio gas made ? [2]
- (vi) Write two characteristics of living beings (Explain briefly) [2]
- (vii) What are the advantages of using electrical energy (write any 2) [2]
- (viii) Write two uses of solar panels. [2]
- (ix) Draw two unicellular organisms. [2]
- 7. Give Reasons :—** **[10]**
- (i) Why is cell called the structural and functional unit of life ?
- (ii) When a solid dissolves in a liquid, the volume of the liquid does not change ? Why.
- (iii) Why do clothes dry more quickly in summer than in the rainy season.
- (iv) Cooking is a chemical change. Why ?
- (v) When you put some glucose on your tongue, your tongue feels cool why ?