

St. Andrews Scots Sr. Sec. School
9th Avenue, I.P. Extension, Patparganj, Delhi – 110092
Session: 2024 – 2025
(Worksheet-6)

Class: VII

Subject: Science

Chapter: Physical and chemical changes

Q.1. Define:

- a) Rusting
- b) Galvanization
- c) Crystallization

Q.2. Fill in the blanks:

- a) Making sugar solution is a change.
- b) A physical change is generally
- c) The process of depositing a thin layer of zinc on iron object is called
- d) Grinding of wheat grain changes its size. It is a change
- e) Melting of wax is a change but burning of wax is achange.

Q.3. Multiple Choice Questions:

- a) Which of the following is a physical change?
 - (i) Rusting of iron
 - (ii) Combustion of magnesium ribbon
 - (iii) Melting of wax
- b) Which one of the following is a chemical change?
 - (i) Twinkling of stars
 - (ii) Cooking of vegetables
 - (iii) Cutting of fruits
- c) A chemical change may involve
 - (a) change in colour only
 - (b) change in temperature only
 - (c) Both a and b
- d) Iron pillar near the Qutub Minar in Delhi is famous for the following facts. Which of these facts is responsible for its long stability?
 - (a) It is more than 7 m high
 - (b) It weighs about 6000 kg
 - (c) It has not rusted after such a long period.
- e) A man painted his main gate made up of iron, to
 - (i) prevent it from rusting.
 - (ii) protect it from the sun.
 - (iii) make it look beautiful.

Which of the above statements is/are correct?

 - (a) (i) and (ii)
 - (b) (ii) and (iii)
 - (c) Only (i) and (iii)

Q.4. State whether the following statement is true or false.

- a) When a candle burns, both physical and chemical changes take place
- b) Cooking of rice is a physical change.
- c) Both moisture and air are essential for rusting.
- d) A blue deposit is formed on an iron nail when dipped in copper sulphate solution.
- e) Within our bodies, food is digested due to chemical reaction.

Q.5. Short Questions Answers:

- a) Name the gas which turns lime water milky.
- b) Write the colour of copper sulphate solution obtained when iron nails are dipped in it?
- c) What colour of flame is observed when magnesium ribbon burnt in air.
- d) Plants prepare their food by a process called photosynthesis. Can we call photosynthesis is a chemical change? Explain.
- e) Why cannot a chemical change be normally reversed?