

## Chapter-3

### Worksheet-1

Q.1 State whether the following statements are: True or False. In case a statement is false, write the correct statement in your notebook.

- (a) Cutting a log of wood into pieces is a chemical change.
- (b) Formation of manure from leaves is a physical change.
- (c) Iron pipes coated with zinc do not get rusted easily.
- (d) Iron and rust are the same substances.
- (e) Condensation of steam is not a chemical change.

Q.2: Which of the following is a physical change?

- (a) Rusting of iron
- (b) Combustion of magnesium ribbon
- (c) Burning of candle
- (d) Melting of wax

Q. 3: Which of the following is a chemical change?

- (a) Twinkling of stars
- (b) Cooking of vegetables
- (c) Cutting of fruits
- (d) Boiling of water

Q. 4: A chemical change may involve

- (a) Change in colour only.
- (b) Change in temperature only.
- (c) Evolution of gas only.
- (d) Any or all of the above.

Q. 5: Which of the following is/are true when milk changes into curd?

- (i) Its state is changed from liquid to semi-solid.
- (ii) It changes colour.
- (iii) It changes taste.
- (iv) The change cannot be reversed.

Choose the correct option from below.

- (a) (i) and (ii) are correct.
- (b) (ii) and (iii) are correct.
- (c) (i), (ii) and (iv) are correct.
- (d) (i) and (iv) are correct.

Q. 6: A man painted his main gate made up of iron, to

- (i) Prevent it from rusting.
- (ii) Protect it from sun.
- (iii) Make it look beautiful.
- (iv) Make it dust free.

Which of the above statement(s) is/are correct?

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

Q.7: Galvanisation is a process used to prevent the rusting of which of the following?

- (a) Iron
- (b) Zinc
- (c) Aluminium
- (d) Copper

Q. 8: Paheli's mother made a concentrated sugar syrup by dissolving sugar in hot water.

On cooling, crystals of sugar got separated. This indicates a

- (a) Physical change that can be reversed.
- (b) Chemical change that can be reversed.
- (c) Physical change that cannot be reversed.
- (d) Chemical change that cannot be reversed.

Q. 9: Which of the following statements is incorrect for a chemical reaction?

- (a) Heat may be given out but never absorbed.
- (b) Sound may be produced.

(c) A colour change may take place.

(d) A gas may be evolved.

Q. 10: Match the items of Column I with the items of Column II.

Column I

Column II

(a) Larger crystals

(i) Turns lime water milky

(b) Depositing a layer of zinc on iron

(ii) Physical change

(c) Souring of milk

(iii) Rust

(d) Carbon dioxide

(iv) Sugar candy (Misbri)

(e) Iron oxide

(v) Chemical change

(f) Dissolving common salt in water

(vi) Galvanisation

Q. 11: Why does a magnesium ribbon burn with a dazzling white flame?

Q. 12: When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas. What type of change is it? Explain.

Q. 13: Explain why burning of wood and cutting it into small pieces are considered as two different types of changes.

Q. 14: Describe how crystals of copper sulphate are prepared.

Q.15: What is galvanisation?

Q.16: What is crystallisation?

Q.17: What is rust? How is it formed?

Q.18: Give example of two substances that can undergo physical and chemical changes, depending upon the conditions.

Q.19: Distinguish between the following.

(i) Physical change and Chemical change

Q. 20: Distinguish between the following –

(i) Exothermic reaction and Endothermic reaction