EXERCISE #1

- (A). Answer the following in not more than 20 words.
- Q.1 Define a physical change
- Q.2 Define a chemical change
- Q.3 Classify the following into physical and chemical changes
 - (a) The cooking of food
 - (b) The evaporation of a liquid
 - (c) The digestion of food
 - (d) burning
 - (e) The condensation of water vapour
- **Q.4** What are the following called?
 - (a) A reaction in which two or more reactants add up to form a product
 - (b) A reaction in which one substance breaks down into two or more simpler substances
 - (c) A reaction in which one element displaces another from a compound and takes its place in the compound
 - (d) A reaction in which an acid reacts with a base to form a salt and water

- (B). Answer the following in not more than 40 words.
- Q.1 How would you decide whether a change is physical or chemical? Mention two characteristics of each kind of change.
- Q.2 Discuss why the dissolving of salt in water is a physical change
- Q.3 Discuss an example of physical and chemical changes happening together.
- (C). Answer the following in not more than 100 words.
- Q.1 Giving one example of each kind, show that a change in energy takes place when a physical or a chemical change occurs.
- Q.2 Describe an activity to find the conditions required for rusting.

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EXERCISE # 2

(A). Choose the correct option.

- Q.1 Which of the following is not a reversible change?
 - (a) The changing of water into steam
 - (b) The melting of iron
 - (c) The burning of kerosene
 - (d) The freezing of water
- **Q.2** Which of the following is a reversible change?
 - (a) The burning of wax
 - (b) The melting of wax
 - (c) The curdling of milk
 - (d) The cooking of food
- Q.3 During which of the following changes are new substances formed?
 - (a) Melting
- (b) Sublimation
- (c) Evaporation (d) Rusting
- **Q.4** Rusting takes place in
 - (a) air-free moisture
 - (b) moisture-free air
 - (c) moist air
 - (d) None of these
- Q.5 In which of the following processes is light absorbed?
 - (a) Sublimation
- (b) Burning
- (c) Rusting
- (d) Photosynthesis

Q.6 Match the columns A and B

(b)

Neutralisation (a) reaction

reaction

(i) Displacement (ii)

(iii)

(iv)

- Decomposition (c) reaction
- (d) Combination reaction

- Burning of carbon
- Formation of carbon dioxide when baking soda is heated
- Deposition of copper when an iron nail is placed in a solution of copper (II) sulphate
- Formation of sodium chloride and water when hydrochloric acid reacts with sodium hydroxide



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