



SHIKSHA CLASSES

Sub. : Science

Question Paper

Marks : 20

Std. : VIIIth - S.B. 13. Chemical Change and Chemical Bond

Time : 45 min.

Q.1(A) : Choose the correct alternative

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- 1) Sodium atoms and sodium ions
 - a) are chemically the same
 - b) have the same number of protons
 - c) have the same number of electrons
 - d) form covalent bond
- 2) An ionic bond is formed when
 - a) two metallic elements react
 - b) two nonmetallic elements react
 - c) a metallic element reacts with a non-metallic element
 - d) a pair of elements react

Q.1(B) : Solve any one of the following question

1

- 1) State true or false.
The preparation of cold drink soda lemon is a physical change.
- 2) Write Correlation
K : 2,8,8,1 :: Mg :
- 3) Give two examples of ionic compounds.

Q.2(A) : Give reason (Any One)

2

- 1) Ionic compounds are formed due to the combination of metallic and nonmetallic atoms.
- 2) Combustion of fuel is a fast and irreversible chemical change.

Q.2(B) : Solve any two of the following question.

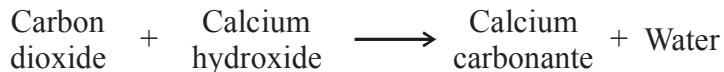
4

- 1) Match the columns:

Column I	Column II
1. Respiration	a. Potassium and fluorine
2. Acid + Base	b. Glucose and oxygen
3. Photosynthesis	c. Carbon dioxide and water
4. Ionic bond	d. Salt and water

2) Dilute hydrochloric acid is used for cleaning Shahabad tiles. Explain.

3) Write a chemical equation (unbalanced) for the following reactions:



4) Distinguish between the following: Physical change and Chemical change.

Q.3 : Solve any Two of the following question

6

1) Write the difference between Ionic bond and covalent bond.

2) Write a word equation for

a) Hard water gets softened on mixing with a solution of washing soda

b) Bubbles are seen on adding lemon juice to baking soda.

c) Respiration is a chemical change.

3) Define the following:

a) Chemical change b) Ionic bond c) Covalent bond.

4) Explain softening of hard water.

Q.4 : Solve any One of the following question.

5

1) Classify the following changes into physical and chemical change.

a) Ripening of mango b) melting of ice c) boiling of water,

d) dissolution of salt in water, e) Ripening of banana, f) fragrance on ripening fruit,

g) darkening of a cut potato, h) bursting of an inflated balloon,

i) sound of bursting fire cracker, j) foul smell from a portion of spoiled food.

2) Show with the help of diagram of electronic configuration how the following compound are formed from the constituent atoms.

a) Sodium Chloride

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