

Chapter: 14

Q.1 A) Choose the correct alternative and rewrite the sentence (1)

..... gas is released when bleaching powder is exposed to air.

- a. Chlorine b. Hydrogen c. Oxygen d. Carbon dioxide

B) Answer the following questions. (2)

1) Find co-related terms

Magnesium sulphate : $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$:: Barium chloride :

2) Find the odd man out:

2) Sodium chloride, Sodium bicarbonate, Sodium carbonate, Hydrogen chloride.

Q.2 A) Give scientific reasons (Any one) (2)

1) A certain type of ceramic tiles are fixed on the outer layer of a space shuttle.

2) Soap forms a precipitate in hard water.

B) Answer the following questions. (Any two) (4)

1) Chemical Equation.

1) Sodium carbonate reacts with magnesium chloride.

When sodium carbonate reacts with magnesium chloride, it forms insoluble magnesium carbonate and sodium chloride.

2) Distinguish between

Washing soda and Baking soda.

3) Write the chemical formula of bleaching powder, common salt, baking soda and washing soda.

Q.3 Answer the following questions. (Any two) (6)

1) The particles of powder are given an electric charge while spraying them to form the powder coating. Explain

2) Complete the following table.

Salt	Original color (of the solution)	Color on the addition of universal indicator	pH value	Nature
Table salt	Colorless	.....	7	Neutral
Soap	.....	Blue	.....	.....
Washing soda	White	.....	11	.....

- 3) Explain the process shown in the following picture.



Q.4 Answer the following questions. (Any one)

(5)

- 1) With reference to Rutherford's experiment, answer the following questions.
 - a. Name the radiations emitted by radium.
 - b. Name the positively charged rays.
 - c. Which rays do not deviate at all?
 - d. Draw a neat labelled diagram for this experiment.
- 2) Where in the industrial field is the radioactivity used?