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**Combined
Paper**

**Std.-X / Science & Technology
Chapter 1, 2, 3**

**Marks : 20
Duration : 1 Hr.**

Instructions :

Draw well labelled diagrams wherever necessary

All questions are compulsory

Students should write the questions in sequence.

Q.1 Answer the following sub-questions :

[4 M]

- (1) Fill in the blanks and re-write the completed statement.
 - (a) The chemical formula for Gypsum is _____
 - (b) Elements present in Group 3 to 12 are called _____
- (2) State whether the following statements are True or False
 - (a) The pH of rain water is 7.
 - (b) Reactions accompanied by absorption of heat are called endothermic reactions.

Q.2 Attempt any five of the following :

[10 M]

- (1) How do metal carbonates react with acids?
- (2) Give scientific reasons. Metallic character decreases from left to right
- (3) Define (a) Rancidity, (b) Saponification
- (4) State any two application of sodium carbonate?
- (5) What is universal character? Does $\text{Mg}(\text{OH})_2$ react with sodium hydroxide.
- (6) Define atomic size. How does it vary in the group.

Q.3 Attempt any two of the following :

[6 M]

- (1) What are the demerits of Mendeleev's periodic table?
- (2) Explain in detail about hydronium ion.
- (3) With the help of neat labelled diagram describe pH scale.