



SCIENCE PRACTICE PAPER 01

Total Marks : 20

I. Choose the Most Appropriate Answers

3 x 1 = 3

- Magnesium ribbon is rubbed before burning because it has a coating of
 - Basic Magnesium Carbonate
 - Basic Magnesium Oxide
 - Basic Magnesium Sulphide
 - Basic Magnesium Chloride
- Oxidation is a process which involves
 - Addition of oxygen
 - Addition of hydrogen
 - Removal of oxygen
 - Removal of hydrogen
- What type of chemical reactions take place when electricity is passed through water?
 - Displacement
 - Combination
 - Decomposition
 - Double displacement

II. Answer the following questions

2 x 1 = 2

- Name the reducing agent in the reaction: $3\text{MnO}_2 + 4\text{Al} \longrightarrow 3\text{Mn} + 2\text{Al}_2\text{O}_3$
- State the type of chemical reactions and chemical equations that take place when Magnesium wire is burnt in air.

III. Answer the Following questions

4 x 2 = 8

- What is a balanced chemical equation? Why should a chemical equation be balanced?
- Oil and Fat containing food items are flushed with Nitrogen. Why?
- What is rancidity? Mention any two ways by which rancidity can be prevented
- Balance the chemical equations - $\text{HNO}_3 + \text{Ca}(\text{OH})_2 \rightarrow \text{Ca}(\text{NO}_3)_2 + \text{H}_2\text{O}$

IV. Answer the following questions

1 x 3 = 3

- Why are decomposition reactions called the opposite of Combination reactions? Write equations for decomposition reactions

V. Answer the following questions

1 x 4 = 4

- What is the difference between displacement and double displacement reactions? Write relevant equations for the above?