

Class test. FM 10

A. Ravi conducted an experiment by keeping three iron nails under different conditions:

Test tube A – dry air, Test tube B – water only, Test tube C – moist air. After a few days, he observed that only the nail in test tube C developed a reddish-brown coating.

1. In which test tube did rusting occur? 1
2. What are the two conditions necessary for rusting? 1
- 3.. Name the chemical substance formed on the nail. 1

B. During a science practical, students heated a strip of magnesium ribbon in the air. It burned with a dazzling white flame and formed a white ash that was insoluble in water.

1. What type of change and name the type of chemical reaction that takes place when magnesium burns? $\frac{1}{2} + \frac{1}{2}$
2. Write the name of the product formed. 1
3. What kind of flame is observed during the reaction? 1
4. With the help of venn diagrams mention different types of change that takes place during this experiment. $1\frac{1}{2}$

C. A student observed that ice melts into water on heating and water freezes into ice on cooling. No new substance was formed during the process.

1. What type of change is melting of ice? $\frac{1}{2}$
2. Do the properties of the substance change? Justify. 2