

F.A.1 Set-2 EM. key paper

80% = 4M.

- I
- Take a large jar with water and heat it up 80°C
 - Take two identical boiling test tubes with single holded corks
 - One of them is filled with 50gms of water and other with 50gms of oil, both at room temperature.
 - Insert two thermometres through holes of the corks, one each into two test tubes.
 - Now clamp them to retort stand and place in a jar.
 - Observe the readings of thermometres every 3 minutes and note the readings.
 - Same amount of heat is supplied to water and oil.
 - We observe that the rate of rise in temperature of the oil is higher than that of the rise in temperature of the water.
- We conclude that the rate of ~~tem~~ rise in Temperature depends on the nature of the substance

- 2
- $2\text{AgCl} \longrightarrow 2\text{Ag} + \text{Cl}_2$
 - $2\text{Zn} + 2\text{HCl} \longrightarrow 2\text{ZnCl}_2 + \text{H}_2$
 - $2\text{PbO} + \text{C} \longrightarrow 2\text{Pb} + \text{CO}_2$
 - $2\text{CH}_4 + 4\text{O}_2 \longrightarrow 2\text{CO}_2 + 4\text{H}_2\text{O}$

1x4 = 4M.

Real image	Virtual image.
1. Real image is formed, if light after reflection (or) refraction converges to a point.	1. Virtual image is formed, if light after reflection (or) refraction appears to be coming from a point.
2. Here the rays actually meet at the image point	2. Here the rays appears to diverge from the image point
3. It can be obtained on screen	3. It cannot be obtained on screen.
4. It is always inverted	4. It is always erect

4 Exothermic reactions: - If heat energy is released during reaction then that type of reaction is called exothermic reaction.

Endothermic reactions: - If heat energy is absorbed during reaction is called endothermic reactions.

If glucose powder is added to glass of water. It will become cold. So it is endothermic reaction.

III 5 Focal lengths of M_1 and M_2 Mirror are same.

6 Fats and oils in food kept for long time get oxidised and become rancid and taste of food changes and causes infection on eating. This is called rancidity.

IV 7. C

8. C

9. A

10. C

11. C

12. C

11