

Ans 1 A Hot glowing body of gas

Ans 1 When something is burnt, a hot gas emerges out of the substance it is called flame.

Ans 2 Because their ignition temperature is low and burn easily.

Ans 3 Substances which are not combustible in the presence of Air. For example glass, sand, stone.

Ans 4	Luminous	Non the luminous
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(1)	Substance which emit their own light	(1) Substance which do not emit their own light
(2)	For example stars, flame etc.	(2) For example moon, spoon etc.

Ans 5 We should not use water to extinguish an electric wire because water is a good conductor of electricity.

Ans 6 ~~Methane~~ Methyl isocyanate gas was produced in Bhopal gas tragedy. Victims suffered from severe chemical burn to eyes and skin.

Ans 7 Fire is extinguished by a fire extinguisher because it releases carbon dioxide which cuts off the supply of oxygen.

Ans 8 Conditions necessary for combustion are -

- 1 Heat (Ignition temperature)
- 2 Fuel (To burn)
- 3 Air (To supply oxygen)

Ans 9 There are 3 types of combustion -

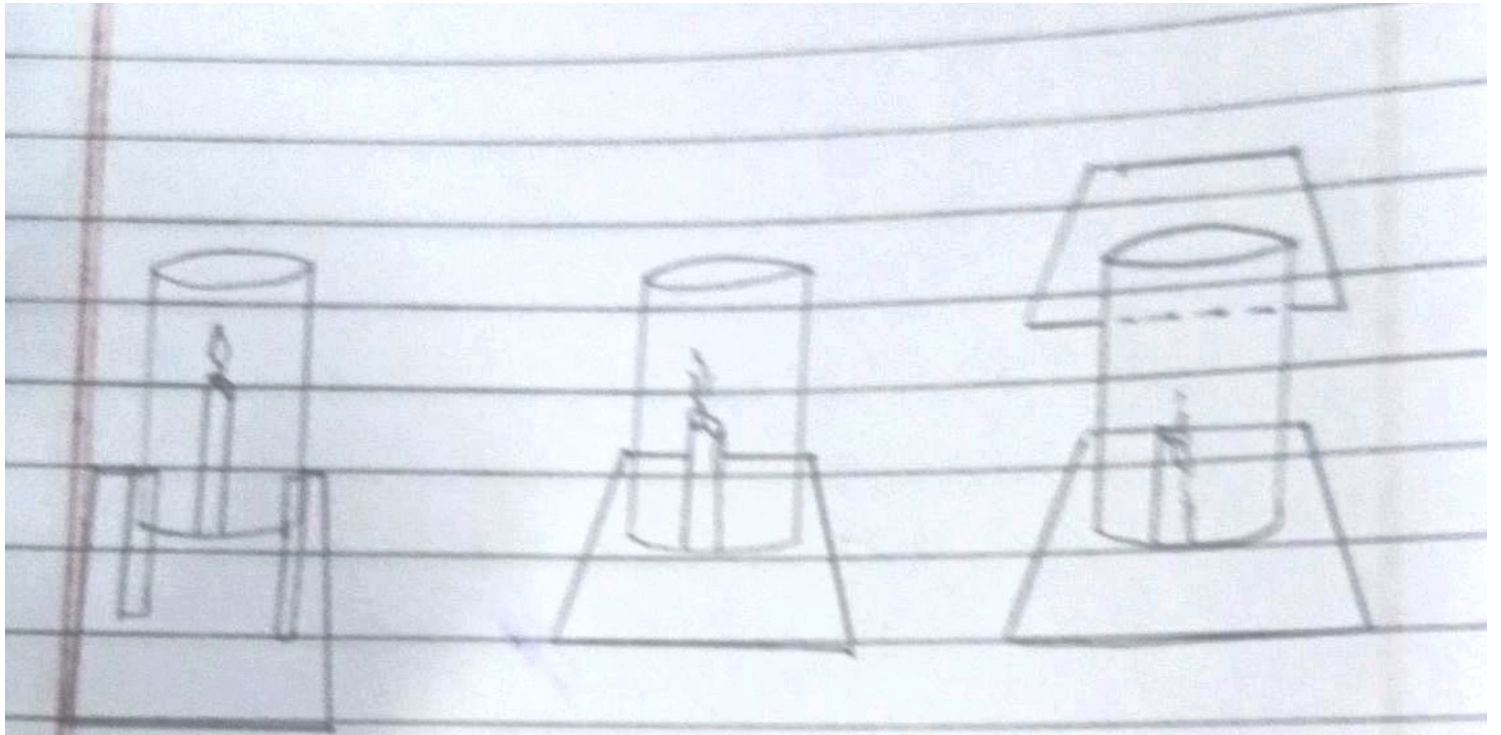
- 1 Rapid combustion - Combustion which take place rapidly at low Ignition temperature. For example Phosphorus etc
- 2 Spontaneous combustion - When a material suddenly bursts into flames, without the application of any apparent cause. For example forest fire.
- 3 Explosive combustion - When a material burns with evolution of heat, light and sound. For example burning firecracker.

Ans 10 a Extinguisher which contain carbon dioxide and release carbon dioxide to stop fire is called Carbon dioxide fire extinguisher

Ans 10 b Soda Acid fire extinguisher contain Sodium bicarbonate solution. It is the most efficient household fire extinguisher

Ans 11 Fix a light candle on a table. Put a glass chimney over the candle and rest it on a few wooden blocks in such a way that air can enter the chimney. If we observe the candle is still burning. Now remove the block and let the chimney rest. Now we will observe that air does not enter the chimney from below, the flame flickers and produces smoke. Finally, put a plate over the chimney. Now we will observe that the flame finally goes off because the air not available.

This experiment shows that oxygen is necessary for burning of candle



Experiment to show that oxygen is essential for burning