

Activity-5

To show that air contains oxygen (an active part) and nitrogen (an inactive part)

Fix a candle in middle of a shallow container. Fill the container with some water. Cover the candle with an empty jar and mark the level of water inside the jar. Now lift the jar and light candle and cover with the jar again. Does candle continue to burn or goes off?

Does the level of water remains same

You will notice that candle continue

to burn for some time and get extinguished. The water level rises slightly up to $\frac{1}{5}$ part of jar containing air. This part is active air.

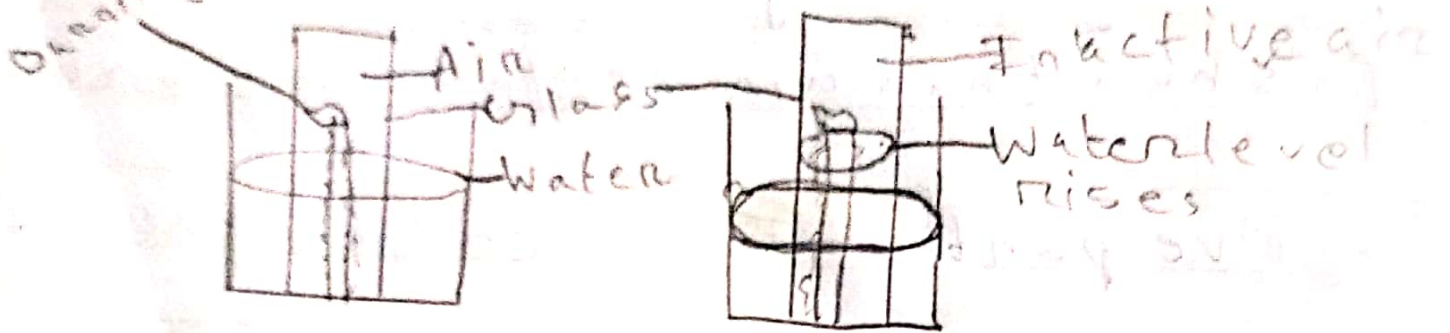
oxygen which helps candle to burn. When it is used up, candle stops burning. $\frac{4}{5}$ part of air still present in jar is inactive air that does not support burning and it's nitrogen.

Activity 6

To show that ~~Activity 6~~ air contains carbon dioxide
Take a test tube fitted with two balloons.

Rubber cork. Fit a long bent tube through other hole. Take out cork and pour some fresh prepared lime water into test tube. Fit cork and make sure that long bent tube is immersed in lime water while short one remains suspended in air. Blow air by an air pump through long tube. You will observe that air blown through lime water turns it milky. Why? Because carbon dioxide that is present in air reacts with lime water and turns it milky.

Activity 5



Activity 6

