

H.WEXERCISE - II

1. Name two processes supported by oxygen present in air.

Ans → Two ~~pro~~ important processes supported by oxygen present in air are:-

① Respiration

② Combustion

2. Give two uses of the following components present in air:

a) oxygen

Ans → Two uses of oxygen are:

① Respiration

② Combustion

b) nitrogen

Ans → Two uses of nitrogen are:

① Nitrogen dilutes the effect of oxygen present in air because it does not support burning.

② It is used to make fertilizers and various nitrogenous products.

c) carbon dioxide

Ans → Two uses of carbon dioxide are:

- ① Carbon dioxide maintains the temperature of the earth and keeps it warm at night.
- ② Carbon dioxide is very important for green plants to prepare their food by photosynthesis.

d) water vapour

Ans → Two uses of water vapour are:

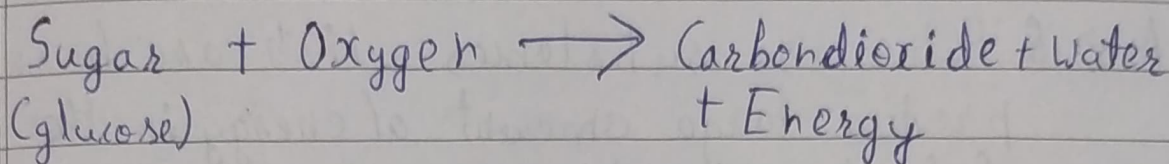
- ① Water vapour present in the air provides moisture for both plants and animals.
- ② Water vapour also helps in predicting climatic conditions of a particular area as its amount varies from place to place and time to time.

3. Define the following:

a) Respiration

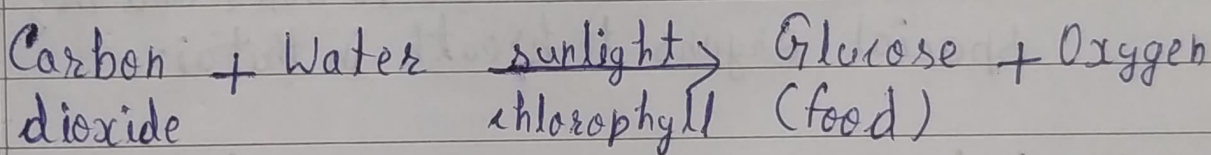
Ans → Respiration is a chemical process that takes place in all living beings. In this process, oxygen present in the inhaled air reacts with the digested food material in the body. This results in release of energy.

carbon dioxide and water.



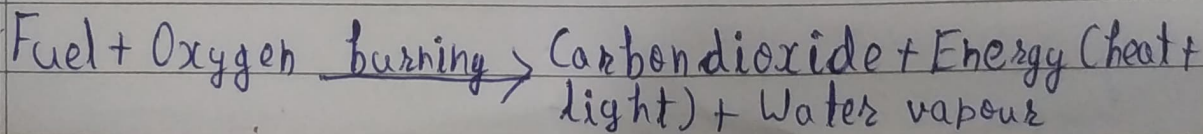
## b) Photosynthesis

Ans → Photosynthesis is a process through which green plants prepare their food in presence of sunlight with the help of carbon dioxide and water. The food is prepared in the form of glucose (a carbohydrate) with the release of oxygen gas.



## c) Combustion

Ans → Combustion is a process in which a substance reacts chemically with oxygen and gets oxidised, with the release of energy in the form of heat and light. It is a fast process.



4. What are fuels? Give two examples of modern fuels.

Ans → Fuels are substances which are burnt to produce large amount of energy in the form of heat and light.  
Ex- LPG and CNG.

5. Give reasons:

a) Aquatic animals and plants are able to survive in water.

Ans → Aquatic animals and plants are able to survive in water as air is dissolved in water and they have special organs to breath in that air.

b) A burning candle stops burning if covered with a glass tumbler.

Ans → A burning candle stops burning if covered with a glass tumbler as all the oxygen in the glass tumbler is used up which is required for burning.

c) Mountaineers and divers carry oxygen <sup>cylinders</sup> with them.

Ans → For artificial respiration, mountaineers and divers carry oxygen cylinders as at higher altitudes and places below the surface of the earth have thin or less dense air.

d) When water is heated, we see bubbles rising up.

Ans → Water has a lot of air dissolved in it. This is what allows breathing to fishes and other aquatic beings. The solubility of gases decreases when the temperature is raised, and that is why the dissolved air bubbles out from the water.