

C.W.
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Ex-II

Q1 Name two important processes supported by oxygen present in air.

Q2 Give two uses of the following component.

- (a) oxygen (b) nitrogen (c) carbon dioxide
(d) water vapour

3 Define the following:

- (a) Respiration, (b) photosynthesis (c) combustion

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

(5) Give reasons:

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

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

(c) Mountaineers and divers carry oxygen cylinders with them.

Ans

(1) ~~Name two important processes~~ supported by oxygen present in air

~~The~~

Ans the Name of two important processes

supported by oxygen present in air

are Respiration and combustion

Q Give two uses of the following components present in air:

(a) oxygen (b) nitrogen (c) carbon dioxide

(d) ~~with~~ water vapour

Ans Oxygen: For respiration and breathing

no life is possible without oxygen, oxygen

is the most vital component which is responsible

for some most important processes

(i) Respiration and (ii) combustion.

20 Nitrogen: Present in air get fixed up in

the soil and nitrates used by plants for

for their growth and for the formation of

25 protein as important nutrient for animal

(c) carbon dioxide: carbon dioxide is

used by plants to prepare their food by

photosynthesis. Dry ice is used as a

refrigerant.

(d) water vapor: water vapours present in air

provide moisture for both plants and

animal. It also help in predicting climatic

conditions of a particular area.

3. ~~Ques~~ Define the following

(a) Respiration (b) photosynthesis

(c) combustion

Ans Respiration: - 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.

photosynthesis:- The main process in nature that helps in balancing the quantities of oxygen and carbon dioxide in air is photosynthesis.

combustion - The process of burning is called combustion.

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

Ans • The substance which burns in air to produce a large amount of energy in the form of heat is called ~~fuel~~ fuels.

Examples:

1 CNG

2 LPG

5 One reason:

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

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

(c) Mountaineers and divers carry oxygen cylinders with them.

(d) ~~When~~ ~~the~~ ~~water~~ ~~is~~ ~~heated~~ we see bubbles rising up

Aquatic animals and plants use oxygen dissolved in water and swimming.

(b) Oxygen is necessary for combustion when covered with a glass tumbler supply of oxygen stops

(c) For artificial respiration

mountain areas carry oxygen cylinders as at high altitudes, the air is thin and breathing becomes difficult.

(d) These bubbles come from the air dissolved in water. The marine life uses air dissolved in water.