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7. State two similarities and two differences between respiration and burning

similarities

Ans Both Respiration and Burning uses ~~oxygen~~ oxygen

Both Respiration and Burning produce energy.

differences

Respiration is the process of oxidation of food material. combustion is the process of burning of sugar to form carbon dioxide and water.

(8) Define rusting. What are the two necessary conditions for rusting of iron? Give the chemical

Ans The slow conversion of iron into its hydrated oxid in the presence of moisture.

and air is called rusting.

The two necessary conditions for rusting are iron scraps or bright iron. The chemical name of rust is hydrated iron oxide.

q. How is air useful to:

(a) water boats (b) agriculture

(c) windmills (d) scooters and cars.

Ans (a) Air helps movement of water boats.

(b) Air speeds up drying up of agricultural products like grains pulses fruits etc.

(c) windmills work more there is sufficient movement of air.

(d) Air filled tyres of cars move smoothly on road as there is less friction

10. State the full form of LPG and CNG? How are the two different in their composition?

Ans The full form of LPG is Liquefied petroleum Gas and CNG is Compressed Natural Gas

LPG: it is obtained from crude petroleum oil. ~~It mainly contains gaseous~~

It is the best fuel for domestic purposes and is laboratories

CNG: It is produced along with crude oil

It mainly contains methane gas It has become a popular fuel for vehicles like three wheeler scooters, cars and buses.

11. (a) why is nitrogen important to all living beings?

(b) what is nitrogen fixation?

Ans (a) Nitroge constitutes 78% of air by volume. It is of vital importance to the plant animals and human being as it is needed to prepare vital nutrient 'protein' which every living being needs for its growth.

(b) * It directly or indirectly

(b) It first 'fixed' in the soil as nitrites and nitrates and then absorbed by the plants in soluble form. This phenomenon is called nitrogen fixation.