

UNIT #10

GASEOUS EXCHANGE

Exercise: Short question answers

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Q1: Why plants don't need specialized respiratory system?

Ans: Need of specialized respiratory system for plants:-

1. Plants do not need any respiratory system such as lungs or gills which are found in animals.
2. Plants have large surface area and gaseous exchange occur in them by the process of diffusion.
3. Plants possess millions of leaves and each leaf contains a lot of stomata.
4. Stomata are small pores which help in the exchange of gaseous.
5. The aquatic plants obtained the dissolved oxygen from water by diffusion.
6. The land plant obtains oxygen from the surrounding air through stomata on their leaves and young stems.

Q2: Differentiate between respiration and breathing?

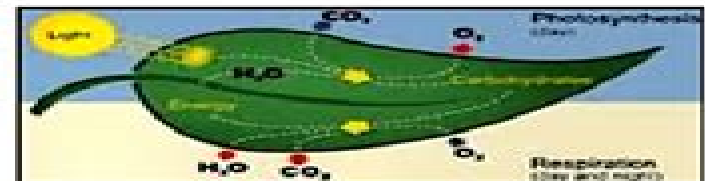
Ans:

RESPIRATION	BREATHING
• Respiration is energy releasing process at cellular level whereby food is broken for release of energy. • In this process complex organic substances like glucose, are broken down into simpler compounds like carbon dioxide and water with the release of energy.	• Breathing is inhalation and exhalation of air for the intake of oxygen and giving out of carbon dioxide. • In breathing fresh air is made available to the respiratory surface of lungs for gaseous exchange. • In higher animals lungs are the organs of breathing.

Q3: How are the surface area of leaves and lungs important for gaseous exchange?

Ans: Importance of surface area for gaseous exchange:

- I. Gaseous exchange is necessary for normal survival and metabolic activities of plants and animals. Gaseous exchange occurs through surface area which means that if there is more surface area then there would be more area available for the gases exchange and the exchange of gases would be effective.
- II. In plants, more surface area of the stomata in leaves assist in the gases exchange.
- III. Photosynthesis and respiration are the two main processes which need gaseous exchange. During day time both photosynthesis and respiration occur but at night only respiration occurs in plants. The gases i.e. oxygen and carbon dioxide exchanged through stomata of leaves in plants.
- IV. During day time oxygen is produced in photosynthesis which is released through stomata. At night only respiration occurs in plants during which oxygen diffuses from environment



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