

Gaseous Exchange

Sr	Questions	Answers Choice
1	Which respiratory disorder is characterized by the inflammation of the bronchial tubes, leading to excessive mucus production and persistent coughing?	A. Emphysema B. Asthma C. Bronchitis D. Pneumonia
2	Which statement accurately describes lenticels?	A. They are found primarily on the upper epidermis of leaves. B. They are regulated by guard cells to control gas exchange. C. They are permanent pores in the bark of woody stems and roots. D. They are involved in the absorption of water from the soil.
3	In young stems and leaves, the epidermal cells are covered with a waxy layer called the cuticle. What is its primary function concerning gaseous exchange?	A. To absorb gases more efficiently. B. To prevent excessive water loss, thereby limiting non-stomatal gas exchange. C. To increase the surface area for gas exchange. D. To facilitate the entry of carbon dioxide.
4	How do the cells of plant roots primarily obtain the oxygen required for cellular respiration?	A. Directly from the atmosphere through lenticels on roots B. Through diffusion from air spaces in the soil C. Transported from leaves via phloem D. Produced during photosynthesis in root cells
5	Within the internal structure of a plant leaf, what is the main function of the numerous interconnected intercellular air spaces surrounding the mesophyll cells?	A. To store excess water for drought conditions B. To facilitate the transport of sugars to other parts of the plant C. To allow for efficient diffusion of gases like CO ₂ and O ₂ throughout the leaf D. To provide structural support and rigidity to the leaf tissue
6	The rate of breathing during exercise or other hard:= physical work is:	A. 10-20 times B. 20-30 times C. 30-40 times D. 40-50 times
7	The major cause of lungs cancer is:	A. nicotine B. smoking C. viral infection D. radiation
8	It is also called sound box:	A. trachea B. larynx C. pharynx D. bronchus
9	Which gas diffuses from the alveoli into the blood capillaries during the process of gaseous exchange?	A. Carbon dioxide B. Oxygen C. Nitrogen D. Methane
10	Which gas is a waste product of cellular respiration and is expelled from the human body during exhalation?	A. Oxygen B. Nitrogen C. Carbon dioxide D. Methane
11	The percentage of oxygen from air which we inspired is:	A. 15 % B. 21% C. 25% D. 28%
12	What is the primary organ responsible for gaseous exchange in humans?	A. Heart B. Kidneys C. Lungs D. ...

13	The process of gaseous exchange involves.	A. Break down of C-H bonds to yield energy. B. Physical movements that take air in and out of body C. Getting oxygen from the air and removing carbon dioxide D. Transport of oxygen by the blood to different parts of the body.
14	Where does the gaseous exchange occur in humans?	A. Pharynx B. Trachea C. Bronchi D. Alveoli
15	Gaseous Exchange in cow takes in:	A. Bronchi B. Trachea C. Pharynx D. Alveoli
16	Which of the following is considered the leading cause of lung cancer and other chronic respiratory diseases?	A. Exposure to cold weather B. Excessive consumption of sugary drinks C. Smoking tobacco D. Lack of physical exercise
17	What are the tiny air sacs in the lungs where the actual exchange of gases (oxygen and carbon dioxide) occurs?	A. Bronchi B. Trachea C. Bronchioles D. Alveoli
18	The movement of gases like oxygen and carbon dioxide across the cell membranes in plants primarily occurs by the process of:	A. Active transport B. Osmosis C. Diffusion D. Facilitated diffusion
19	What substance in red blood cells is primarily responsible for transporting oxygen in the blood?	A. Plasma B. Hemoglobin C. Platelets D. White blood cells
20	The uncontrolled cell divisions in lungs tissue is called:	A. bronchitis B. emphysema C. cancer D. Asthma