

Gaseous Exchange

Sr	Questions	Answers Choice
1	Which sequence correctly represents the path of air from the outside environment to the alveoli during inhalation?	<p>A. Nasal cavity → Pharynx → Larynx → Trachea → Bronchi → Bronchioles → Alveoli</p> <p>B. Larynx → Pharynx → Nasal cavity → Trachea → Bronchi → Bronchioles → Alveoli</p> <p>C. Nasal cavity → Trachea → Pharynx → Larynx → Bronchi → Bronchioles → Alveoli</p> <p>D. Pharynx → Nasal cavity → Larynx → Trachea → Bronchi → Bronchioles → Alveoli</p>
2	In normal condition human respiration rate is:	<p>A. 12 to 15 per minute</p> <p>B. 15 to 12 per minute</p> <p>C. 10 to 12 per minute</p> <p>D. 16 to 20 per minute</p>
3	In wood seems and roots the gaseous:	<p>A. lenticels</p> <p>B. epidermal cells</p> <p>C. somata</p> <p>D. micropyle</p>
4	What happens to the stomata in most plants during the night?	<p>A. They open wider to release excess oxygen.</p> <p>B. They remain unchanged, irrespective of light.</p> <p>C. They close to conserve water and prevent gas loss.</p> <p>D. They partially open to allow minimal gas exchange.</p>
5	How do gases primarily move from the atmosphere to the internal cells of a plant leaf?	<p>A. Through xylem vessels</p> <p>B. By diffusion through stomata</p> <p>C. Via phloem tubes</p> <p>D. Active transport across the cuticle</p>
6	Percentage of CO ₂ in exhaled are during breathing is:	<p>A. 16%</p> <p>B. 4%</p> <p>C. 79%</p> <p>D. 0.04%</p>
7	For gaseous exchange the leaf and young stems have in their epidermis:	<p>A. Stomata</p> <p>B. Lenticels</p> <p>C. Companion cell</p> <p>D. Guard cells</p>
8	Which of the following is considered the leading cause of lung cancer and other chronic respiratory diseases?	<p>A. Exposure to cold weather</p> <p>B. Excessive consumption of sugary drinks</p> <p>C. Smoking tobacco</p> <p>D. Lack of physical exercise</p>
9	What is the primary function of the human kidneys?	<p>A. Pumping blood throughout the body</p> <p>B. Filtering waste products from the blood and producing urine</p> <p>C. Producing digestive enzymes for the small intestine</p> <p>D. Regulating body temperature through sweating</p>
10	The movement of gases like oxygen and carbon dioxide across the cell membranes in plants primarily occurs by the process of:	<p>A. Active transport</p> <p>B. Osmosis</p> <p>C. Diffusion</p> <p>D. Facilitated diffusion</p>
11	When the "World no tobacco day" is celebrated?	<p>A. 30 June</p> <p>B. 31 June</p> <p>C. 11 January</p> <p>D. None of these</p>
12	The inflammation of bronchi or bronchioles is called:	<p>A. Bronchites</p> <p>B. Emphysema</p> <p>C. Pneumonia</p>

		D. Chest box
13	The muscles of ribs are called;	A. Smooth muscles B. Cardiac muscles C. Intercoastal muscles D. Coastal muscles
14	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
15	Where does the gaseous exchange occur in humans?	A. Pharynx B. Trachea C. Bronchi D. Alveoli
16	Which waxy layer on the surface of plant leaves acts as a primary barrier to uncontrolled gaseous exchange and water loss, but also limits direct gas diffusion?	A. Epidermis B. Cuticle C. Cell wall D. Stomata
17	Which of the following is the main nitrogenous waste product excreted by the human urinary system?	A. Carbon dioxide B. Bile C. Urea D. Lactic acid
18	Which of the following is called voice box?	A. Trachea B. Larynx C. Bronchi D. Alveoli
19	Which disease is involved in the breakdown of air sacs of the lungs?	A. Bronchites B. Emphysema C. Pneumonia D. Asthema
20	Smoking may also lead to the cancers in:	A. Kidneys and pancreas B. Oral cavity and larynx C. Breast and bladder D. All of them