

Gaseous Exchange

Sr	Questions	Answers Choice
1	Which disease is caused by Streptococcus pneumoniae:	A. Bronchitis B. Emphysema C. Pneumonia D. Asthma
2	After entering stomata, through which pathway do gases primarily reach the mesophyll cells in a plant leaf?	A. Vascular bundles B. Intercellular air spaces C. Xylem vessels D. Phloem tubes
3	Gaseous Exchange in cow takes in:	A. Bronchi B. Trachea C. Pharynx D. Alveoli
4	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
5	How do root hair cells primarily obtain oxygen for respiration from the soil?	A. Through direct absorption from atmospheric air. B. By diffusing from air spaces present in the soil. C. By actively transporting oxygen from water. D. By producing their own oxygen through photosynthesis.
6	Pneumonia is an infection of the lungs that can be caused by bacteria, viruses, or fungi. What is the main effect of pneumonia on the lungs?	A. Thickening of the vocal cords B. Collapse of the trachea C. Inflammation and fluid accumulation in the alveoli D. Hardening of the diaphragm
7	The basic structural and functional unit of the kidney responsible for filtering blood and forming urine is called the:	A. Neuron B. Alveolus C. Nephron D. Hepatocyte
8	Which of the following correctly represents the path of urine out of the human body?	A. Kidney → Urethra → Ureter → Urinary Bladder B. Kidney → Urinary Bladder → Ureter → Urethra C. Kidney → Ureter → Urinary Bladder → Urethra D. Kidney → Urinary Bladder → Urethra → Ureter
9	Which gas is absorbed through stomata of plant during night?	A. Carbon dioxide B. Oxygen C. Nitrogen D. Hydrogen
10	Which respiratory disorder is characterized by inflammation and narrowing of the airways, often triggered by allergens or exercise?	A. Emphysema B. Bronchitis C. Asthma D. Pneumonia
11	The glottis is guarded by a flap of tissue called:	A. Trachea B. Glottis C. Bronchi D. Epiglottis
12	During exercise or other hard physical works the breathing rate may increase up to.	A. 30-40 times per minute B. 50-60 times per minute C. 60-70 times per minute D. 70-80 times per minute
13	Lenticels are small pores found on the surface of which plant structures, enabling gaseous exchange?	A. Young leaves B. Flower petals C. Woody stems and roots D. Fruit skins
		A. Carry out photosynthesis.

14	The primary role of guard cells in plant leaves is to:	B. Absorb water from the atmosphere. C. Regulate the opening and closing of stomata. D. Provide structural support to the leaf.
15	Power of speaking is only gifted to:	A. Human being B. Monkey C. Parrot D. Crow
16	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
17	Amount of oxygen in expired air is:	A. 21% B. 16% C. 0.04% D. 4%
18	The respiratory disease that is the destruction of the walls of Alveoli is;	A. Asthma B. Pneumonia C. Emphysema D. Bronchitis
19	Which gas is continuously required by plants for the process of cellular respiration, day and night?	A. Carbon dioxide B. Nitrogen C. Oxygen D. Methane
20	During intense daylight, what is the predominant net gaseous exchange occurring in the leaves of a photosynthesizing plant?	A. Intake of oxygen and release of carbon dioxide. B. Intake of carbon dioxide and release of oxygen. C. Equal intake and release of both oxygen and carbon dioxide. D. No net exchange of gases occurs.