

Gaseous Exchange

Sr	Questions	Answers Choice
1	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
2	The opening and closing of stomata are regulated by specialized cells known as:	A. Epidermal cells. B. Mesophyll cells. C. Guard cells. D. Xylem cells.
3	Chronic bronchitis is primarily caused by prolonged exposure to which of the following?	A. Viral infections B. Bacterial infections C. Air pollution and smoking D. Genetic predisposition
4	Which respiratory disorder is most strongly associated with uncontrolled cell growth in the lung tissues, often linked to smoking?	A. Asthma B. Emphysema C. Lung Cancer D. Tuberculosis
5	For gaseous exchange the leaf and young stems have in their epidermis:	A. Stomata B. Lenticels C. Companion cell D. Guard cells
6	Where does the gaseous exchange occur in humans:	A. Pharynx B. Larynx C. Trachea D. Epiglottis
7	The turgor pressure within guard cells directly controls which aspect of stomatal function?	A. Rate of transpiration B. Size of the stomatal pore C. Production of glucose D. Absorption of water from roots
8	The normal breathing rate in human being is:	A. 10-40 times per minute B. 16-20 times per minute C. 30-40 times per minute D. None of these
9	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
10	Which gas is released by plants during cellular respiration, both day and night?	A. Oxygen B. Carbon dioxide C. Methane D. Hydrogen
11	How many bronchi are there in the air passageway?	A. One B. Two C. Many D. None of these
12	Submerged aquatic plants perform gaseous exchange primarily through which of the following?	A. Well-developed stomata on their leaves. B. Lenticels located on their stems. C. Their entire general body surface. D. Specialized air roots (pneumatophores).
13	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
14	The muscles of ribs are called;	A. Smooth muscles B. Cardiac muscles C. Intercostal muscles D. Coastal muscles
15	Every year "World Day" is celebrated on:	A. 31 May B. 30 May C. 31 March

D. 21 March

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- 16 Which bring deoxygenated blood from heart into lungs?
- A. Pulmonary veins
 - B. Pulmonary Artery
 - C. Aorta
 - D. Wind Pipe
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- 17 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
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- 18 During the daytime, plants primarily take in which gas from the atmosphere for photosynthesis?
- A. Oxygen
 - B. Nitrogen
 - C. Carbon dioxide
 - D. Water vapor
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- 19 What type of blood vessels surrounds the alveoli?
- A. Artery
 - B. Arteriole
 - C. Capillary
 - D. Vein
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- 20 The uncontrolled cell divisions in lungs tissue is called:
- A. bronchitis
 - B. emphysema
 - C. cancer
 - D. Asthma
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