



Name of the Bundle	Proficient Bundle V2	Subject	Competitive Exams Training (Science & Geography)
Topic	Respiratory System	Last updated on	30 January 2025

Multiple choice questions (MCQ) on Respiratory System:

1. In which part of the respiratory system, gaseous exchange takes place?

- a. Alveoli
- b. Pharynx
- c. Larynx
- d. Trachea

Ans: a. Alveoli

2. _____ is located between two pleural sacs and is the central compartment of the thoracic cavity.

- a. Hilum
- b. Pleura
- c. Mediastinum
- d. Thoracic cage

Ans: c. Mediastinum

3. Which of the following statements is true about involuntary breathing?

- a. It is controlled by the bronchioles
- b. It is controlled by the pulmonary arterioles
- c. It is controlled by the alveolar-capillary network
- d. It is controlled by the neurons, located in the medulla and pons

Ans: d. It is controlled by the neurons, located in the medulla and pons

4. Which of the following are parts of the human respiratory system?

- a. Trachea
- b. Diaphragm
- c. The lungs
- d. All of the above

Ans: d. All of the above



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5. Which of the following gases is released during respiration?

- a. Oxygen
- b. Hydrogen
- c. Carbon dioxide
- d. Nitrogen

Ans: c. Carbon dioxide

6. The tiny air sacs present in human lungs are called_____.

- a. Alveoli
- b. Bronchus
- c. Bronchioles
- d. Diaphragm

Ans: a. Alveoli

7. Which of the following functions by filtering and keeping the mucus and dirt away from our lungs?

- a. Cilia
- b. Bronchioles
- c. Hairs in the lungs
- d. All of the above

Ans: a. Cilia

8. The total number of alveoli present in the human lungs is estimated to be around _____.

- a. 1 billion
- b. 800 million
- c. 500 million
- d. 1500 million

Ans: c. 500 million



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9. The exchange of gases between the external environment and the lungs_____.

- a. Respiration
- b. External respiration
- c. Cellular respiration
- d. Internal respiratory

Ans: b. External respiration

10. Which one of the following statements is false about the trachea?

- a. Has C-shaped rings
- b. It is covered by epiglottis
- c. It splits into the right and left lungs
- d. None of the above

Ans: b. It is covered by epiglottis

11. The maximum volume of air contained in the lung by a full forced inhalation is called _____.

- a. Tidal volume
- b. Vital capacity
- c. Ventilation rate
- d. Total lung capacity

Ans: d. Total lung capacity

12. Which one of the following is correct regarding the larynx?

- a. It houses the vocal cords
- b. It prevents the invading pathogens into the trachea
- c. It is an organ made of cartilage and connects the pharynx to the trachea
- d. All of the above

Ans: d. All of the above



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13. Which of the following is the function of the trachea?

- a. Gaseous Exchange
- b. Filters the air we breathe
- c. Exhales the air from the body
- d. Controls the body temperature

Ans: b. Filters the air we breathe

14. Which of these statements is true about internal respiration?

- a. Production of ATP
- b. Exchange of gases between the bloodstream and tissue cells
- c. Exchange of gases between alveoli and the bloodstream
- d. Breathing between the atmosphere and the alveoli

Ans: b. Exchange of gases between the bloodstream and tissue cells

15. Which of the following organs functions as an air conditioner?

- a. Larynx
- b. Pharynx
- c. Nasal chambers
- d. Alveoli

Ans: c. Nasal chambers

16. The normal breathing process is controlled by _____.

- a. Lungs
- b. Ventral respiratory group
- c. Dorsal respiratory group
- d. Both (b) and (c)

Ans: d. Both (b) and (c)

17. In Aves, the exchange of gases occurs within the _____.

- a. Lungs
- b. Air sacs
- c. Air sacs and Lungs
- d. Pores

Ans: a. Lungs



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18. Which of the following statements is true about air entry into the lungs?

- a. Air enters the body and travels to the lungs through the mouth and the nose.
- b. Air enters the body and travels to the lungs through the oesophagus and gullet.
- c. Air enters the body and travels to the lungs through the windpipe and the pores.
- d. Air enters the body and travels to the lungs through the nose and the nervous system.

Ans: a. Air enters the body and travels to the lungs through the mouth and the nose

19. The windpipe is also called the _____.

- a. Larynx
- b. Lungs
- c. Trachea
- d. Oesophagus

Ans: c. Trachea

20. In Earthworms, the process of respiration is through _____.

- a. Skin
- b. Head
- c. Lungs
- d. Pores on its anterior end

Ans: a. Skin

21. Which body part is mainly affected by the disease pneumonia?

- a. Intestine
- b. Liver
- c. Lungs
- d. Heart

Ans: c. Lungs



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22. The thoracic cavity has _____ on its lower side.

- a. Bronchus
- b. Vertebral Column
- c. Sternum
- d. Diaphragm

Ans: d. Diaphragm

23. Congestive heart failure is because of congestion in _____.

- a. Lungs
- b. Heart
- c. Muscles
- d. Arteries

Ans: a. Lungs

24. During the _____ process, heat energy is formed.

- a. Circulation
- b. Excretion
- c. Digestion
- d. Respiration

Ans: d. Respiration

25. Lungs are enclosed in _____.

- a. Perichondrium
- b. Pericardium
- c. Pleural Membrane
- d. Peritoneum

Ans: c. Pleural membrane



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26. During the process of respiration, how many oxygen molecules combine with one molecule of glucose?

- a. 4
- b. 5
- c. 12
- d. 6

Ans: d. 6

27. Anaerobic respiration takes place in _____.

- a. Presence of Carbon dioxide
- b. Presence of Oxygen
- c. Absence of Carbon dioxide
- d. Absence of oxygen

Ans: d. Absence of oxygen