Biology 39 The Respiratory System MCQ

Author: OpenStax College

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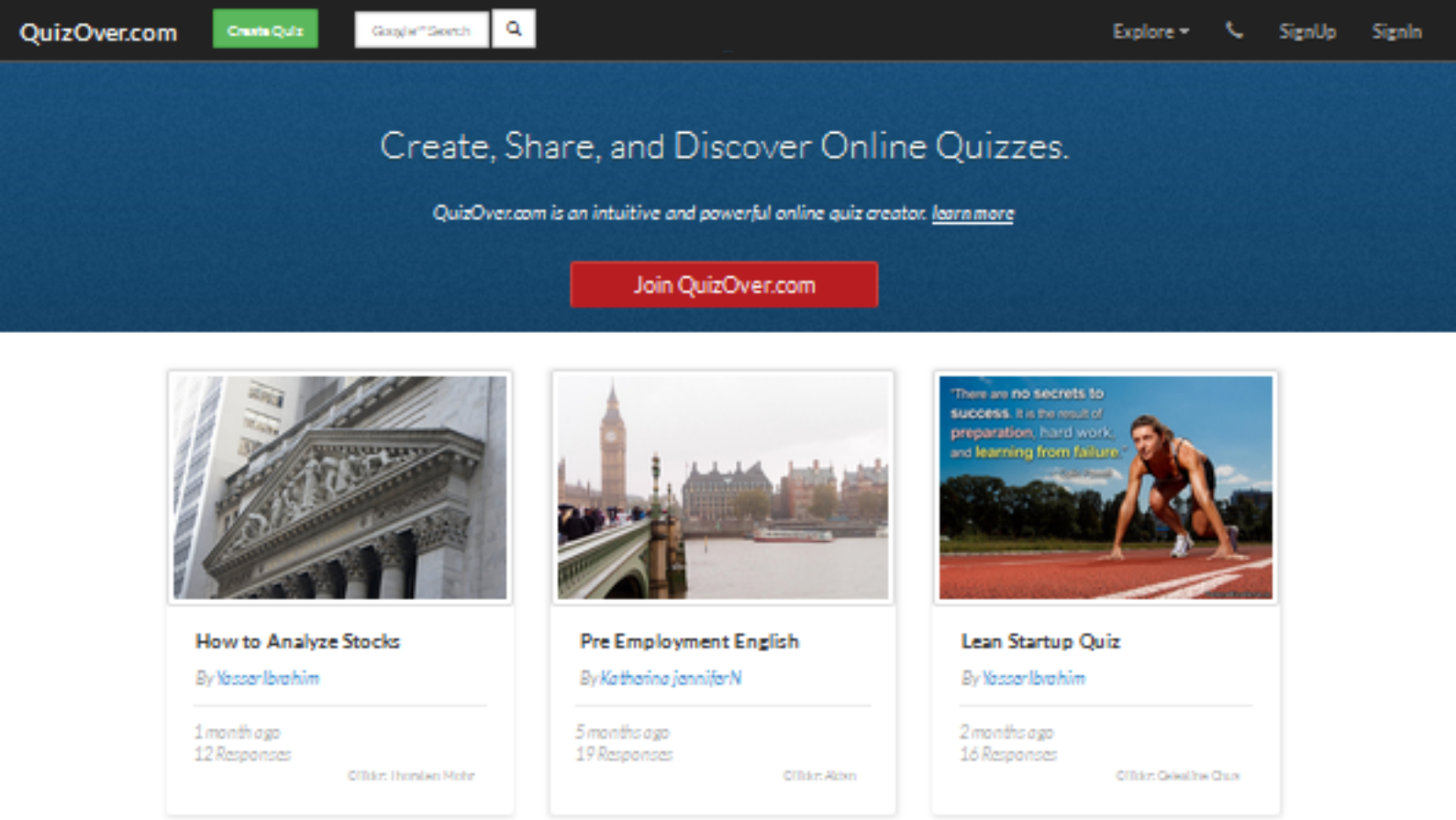

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4. Chapter: Biology 39 The Respiratory System MCQ

1. Biology 39 The Respiratory System MCQ Questions

4.1.1. The respiratory system _____.

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The respiratory system _____.

Please choose only one answer:

- provides body tissues with oxygen
- provides body tissues with oxygen and carbon dioxide
- establishes how many breaths are taken per minute
- provides the body with carbon dioxide

4.1.2. Air is warmed and humidified in the nasal passages. This helps to _...

Author: OpenStax College

Air is warmed and humidified in the nasal passages. This helps to _____.

Please choose only one answer:

- ward off infection
- decrease sensitivity during breathing
- prevent damage to the lungs
- all of the above

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4.1.3. Which is the order of airflow during inhalation?

Author: OpenStax College

Which is the order of airflow during inhalation?

Please choose only one answer:

- nasal cavity, trachea, larynx, bronchi, bronchioles, alveoli
- nasal cavity, larynx, trachea, bronchi, bronchioles, alveoli
- nasal cavity, larynx, trachea, bronchioles, bronchi, alveoli
- nasal cavity, trachea, larynx, bronchi, bronchioles, alveoli

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Question: Which is the order of airflow during OpenStax College Biology 39

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4.1.4. The inspiratory reserve volume measures the _____.

Author: OpenStax College

The inspiratory reserve volume measures the _____.

Please choose only one answer:

- amount of air remaining in the lung after a maximal exhalation
- amount of air that the lung holds
- amount of air the can be further exhaled after a normal breath
- amount of air that can be further inhaled after a normal breath

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4.1.5. Of the following, which does not explain why the partial pressure o...

Author: OpenStax College

Of the following, which does not explain why the partial pressure of oxygen is lower in the lung than in the external air?

Please choose only one answer:

- Air in the lung is humidified; therefore, water vapor pressure alters the pressure.
- Carbon dioxide mixes with oxygen.
- Oxygen is moved into the blood and is headed to the tissues.
- Lungs exert a pressure on the air to reduce the oxygen pressure.

4.1.6. The total lung capacity is calculated using which of the following ...

Author: OpenStax College

The total lung capacity is calculated using which of the following formulas?

Please choose only one answer:

- residual volume + tidal volume + inspiratory reserve volume
- residual volume + expiratory reserve volume + inspiratory reserve volume
- expiratory reserve volume + tidal volume + inspiratory reserve volume
- residual volume + expiratory reserve volume + tidal volume + inspiratory reserve volume

4.1.7. How would paralysis of the diaphragm alter inspiration?

Author: OpenStax College

How would paralysis of the diaphragm alter inspiration?

Please choose only one answer:

- It would prevent contraction of the intercostal muscles.
- It would prevent inhalation because the intrapleural pressure would not change.
- It would decrease the intrapleural pressure and allow more air to enter the lungs.
- It would slow expiration because the lung would not relax.

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4.1.8. Restrictive airway diseases _____.

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Restrictive airway diseases _____.

Please choose only one answer:

- increase the compliance of the lung
- decrease the compliance of the lung
- increase the lung volume
- decrease the work of breathing

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Question: Restrictive airway diseases . OpenStax College Biology 39 The Quest

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4.1.9. Alveolar ventilation remains constant when _____.

Author: OpenStax College

Alveolar ventilation remains constant when _____.

Please choose only one answer:

- the respiratory rate is increased while the volume of air per breath is decreased
- the respiratory rate and the volume of air per breath are increased
- the respiratory rate is decreased while increasing the volume per breath
- both a and c

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4.1.10. Which of the following will NOT facilitate the transfer of oxygen t...

Author: OpenStax College

Which of the following will NOT facilitate the transfer of oxygen to tissues?

Please choose only one answer:

- decreased body temperature
- decreased pH of the blood
- increased carbon dioxide
- increased exercise

Check the answer of this question online at QuizOver.com:
Question: Which of the following will NOT facilitate OpenStax College Biology

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4.1.11. The majority of carbon dioxide in the blood is transported by _____...

Author: OpenStax College

The majority of carbon dioxide in the blood is transported by _____.

Please choose only one answer:

- binding to hemoglobin
- dissolution in the blood
- conversion to bicarbonate
- binding to plasma proteins

Check the answer of this question online at QuizOver.com:
Question: The majority of carbon dioxide in the OpenStax College Biology 39

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4.1.12. The majority of oxygen in the blood is transported by _____.

Author: OpenStax College

The majority of oxygen in the blood is transported by _____.

Please choose only one answer:

- dissolution in the blood
- being carried as bicarbonate ions
- binding to blood plasma
- binding to hemoglobin

Check the answer of this question online at QuizOver.com:
Question: The majority of oxygen in the blood is OpenStax College Biology 3

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