



# OAT<sup>Q&As</sup>

Optometry Admission

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### QUESTION 1

An electron moves in a uniform electric field in the same direction as the electric field from point A to point

B. Which of the following statements is true?

- A. The potential energy of the electron decreased.
- B. The potential energy of the electron increased.
- C. The potential energy of the electron remained constant.
- D. The potential energy of the electron was converted into kinetic energy.

Correct Answer: B

The direction of the electric field is the same as the direction of the force on a positive test charge. Moving a negative charge in the direction of the electric field requires an external force to oppose the electric field. This would increase the electron's potential energy.

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### QUESTION 2

The air one inhales and exhales at a default, steady pace at rest is called:

- A. Tidal Volume
- B. Inspiratory Reserve Volume
- C. Expiratory Reserve Volume
- D. Total Lung Capacity
- E. Respiration

Correct Answer: A

This is the correct definition of tidal volume. This is measured via a spirometer.

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### QUESTION 3

Which of the following statements about pulmonary circulation is false?

- A. Pulmonary artery carries oxygen-rich blood from the right ventricle.
- B. It receives the entire cardiac output.
- C. It has low vascular resistance.
- D. Gas exchange occurs at capillaries on alveolar surface.
- E. Pulmonary vein carries oxygen-rich blood to the left atrium.



Correct Answer: A

The pulmonary artery is carrying oxygen-POOR blood from the right ventricle, going to the lungs to pick up oxygen, and continuing to the left atrium of the heart as the pulmonary vein.

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#### QUESTION 4

The reduction of an ester to an aldehyde can be done using which reagent?

- A. DIBALH
- B. Tri-t-butoxyaluminum hydride
- C. Lithium dialkylcuprate
- D. Phosphoylide (Wittig Reaction)
- E. Heat

Correct Answer: A

Addition of DIBALH (diisobutylaluminum hydride) indeed reduces an ester to an aldehyde. You should be familiar with all these reagents and know the effects they do to various reagents.

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#### QUESTION 5

The molar solubility of an hypothetical salt, AB, is  $3.0 \times 10^{-3}$ . Find the  $K_{sp}$

- A.  $27 \times 10^{-9}$
- B.  $9 \times 10^{-6}$
- C.  $6 \times 10^{-3}$
- D.  $1.5 \times 10^{-3}$
- E.  $3.0 \times 10^{-3}$

Correct Answer: B

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