

Laboratory Science Practice Test Questions and Answers

1. What does the HbA1c test measure?

- A) Current blood glucose at time of draw
- B) Average blood glucose over the past 2-3 months
- C) Insulin secretion capacity
- D) Red blood cell lifespan

2. What does MCV measure in a complete blood count?

- A) Mean Corpuscular Volume — average size of red blood cells
- B) Maximum Cell Velocity — RBC flow rate
- C) Minimal Clotting Value — coagulation threshold
- D) Mean Cellular Viscosity — blood thickness

3. What does the osmolal gap indicate when elevated?

- A) Hypernatremia
- B) Presence of unmeasured osmoles such as ethanol, methanol, or ethylene glycol
- C) Severe dehydration
- D) Diabetic ketoacidosis

4. What does an anion gap calculation help identify?

- A) Type of hemoglobin disorder
- B) Cause of metabolic acidosis (distinguishing gap from non-gap acidosis)
- C) Severity of respiratory alkalosis
- D) Degree of dehydration

Answers: 1-B 2-A 3-B 4-B

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