

# Biochemistry Practice Test Questions and Answers

## 1. Southern blotting detects:

- A) Specific RNA sequences
- B) Specific DNA sequences
- C) Specific protein antigens
- D) Specific lipid molecules

## 2. Flow cytometry can be used to:

- A) Separate proteins by molecular weight
- B) Count and sort cells based on fluorescent markers
- C) Determine protein tertiary structure
- D) Measure enzyme kinetics in real time

## 3. Competitive inhibition of an enzyme:

- A) Decreases  $V_{max}$  without changing  $K_m$
- B) Increases apparent  $K_m$  without changing  $V_{max}$
- C) Decreases both  $K_m$  and  $V_{max}$
- D) Increases both  $K_m$  and  $V_{max}$

## 4. Chaperone proteins assist in which process?

- A) Protein degradation
- B) mRNA translation initiation
- C) Correct protein folding
- D) Post-translational glycosylation

**Answers: 1-B 2-B 3-B 4-C**

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