

**SAMPLE TEST QUESTIONS**  
**ABC TECHNICAL SPECIALIST FORENSIC BIOLOGY EXAMINATION**

1. A three banded isoenzyme pattern with a 1:2:1 intensity ratio indicates a \_\_\_\_\_ protein.

- A. monomeric
- B. dimeric
- C. trimeric
- D. tetrameric

2. The alcohol soluble type of ABH blood group substance is found:

- A. in semen
- B. in saliva
- C. on red blood cells
- D. All of the above

3. The ability to detect agglutinins by the Lattes crust method is directly related to the:

- A. titer of the antiserum used
- B. use of additional controls
- C. red blood cell concentration utilized
- D. number of washes at 4 degrees Celsius

4. Consider the following data describing a genetic marker:

1-1 N = 120  
2-1 N = 90  
2-2 N = 60

The Probability of Discrimination (PD) for the genetic marker is described by the data above is:

- A. 0.10
- B. 0.29
- C. 0.71
- D. 0.90

5. Organic compounds having the basic formula  $\text{NH}_2\text{-R-COOH}$  (where R = an aliphatic or aromatic radical) that are polymerized to form peptides and proteins are termed:
- A. amino acids
  - B. enzymes
  - C. phospholipids
  - D. polysaccharides
6. Detection of p30 in a questioned stain would allow identification of semen from individuals who are classified as:
- A. anemic
  - B. aspermic
  - C. nonsecretors
  - D. secretors