

# **Test Bank for Medical Microbiology 8th Murray**

# **Murray: Medical Microbiology, 8th Edition**

## **Chapter 5: Molecular Diagnosis**

### **Test Bank**

#### **MULTIPLE CHOICE**

1. Target nucleic acid amplification (PCR) methods are based on which of the following?
  - a. The ability of two nucleic acid strands that have complementary base sequences to specifically bond with each other and form a double-stranded molecule
  - b. Detecting phenotypic traits not detectable by conventional strategies
  - c. The principles of complementary nucleic-acid hybridization and those of nucleic-acid replication that are applied repeatedly through numerous cycles
  - d. Determining the exact nucleotide sequence of a gene or gene fragment obtained from an organism

ANS: C

2. A reduction in production of HIV due to therapy can be evaluated by which of the following methods?
  - a. ELISA assay for antibody of patient serum
  - b. Western blot for antibody of patient serum
  - c. PCR analysis of patient serum
  - d. Real-time PCR of patient serum
  - e. Immunofluorescence of peripheral blood T cells

ANS: D

3. A 27-year-old man has focal neurologic symptoms, and MRI indicates inflammation in the temporal lobe. Which test would be most effective to confirm the diagnosis?
  - a. ELISA assay for antibody of patient serum
  - b. Western blot for antibody of patient serum
  - c. PCR analysis of patient serum
  - d. Real-time PCR of patient serum
  - e. Immunofluorescence of peripheral blood T cells

ANS: C