Medical Microbiology 8th edition Murray Test Bank

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Murray: Medical Microbiology, 8th Edition

Chapter 5: Molecular Diagnosis

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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 antibocy 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

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