

Name _____

Microscopic Sleuths: Identifying Microorganisms in Clinical Settings

Multiple Choice Questions

1. How do healthcare professionals identify microorganisms through microscopic examination?
 - A) By analyzing their genetic material
 - B) By observing their size, shape, and movement under a microscope
 - C) By conducting biochemical tests
 - D) By performing serological tests

2. What is the purpose of culture and sensitivity testing?
 - A) To observe microorganisms under a microscope
 - B) To detect antibodies in patients' blood
 - C) To identify microorganisms and determine their susceptibility to antibiotics
 - D) To amplify DNA or RNA samples

3. Which molecular technique is used to amplify small amounts of DNA or RNA to detect microorganisms?
 - A) PCR
 - B) Serological testing
 - C) Mass spectrometry
 - D) Microscopic examination

4. What do serological tests detect in patients' blood samples?
 - A) Presence of antibodies
 - B) Presence of bacteria
 - C) Presence of viruses
 - D) Presence of fungi

5. How does mass spectrometry identify microorganisms?
 - A) By analyzing their genetic material
 - B) By observing their movement under a microscope
 - C) By detecting their susceptibility to antibiotics
 - D) By analyzing their unique protein profiles

