

Chapter 2
Methods in Microbiology

1. Which of the following are CORRECT about negative staining procedure?
(A) It utilizes a stain such as nigrosine.
(B) Microorganisms stain deeply.
(C) Microorganisms repel the dye.
(D) An acidic dye is used.
2. Which of the following provide three dimensional images?
(A) Atomic force microscopy
(B) Confocal scanning laser microscopy
(C) Differential interference contrast microscopy
(D) Phase-contrast microscopy
3. Which of the following bacteria belong to photolithoautotrophy nutritional class?
(A) *Thiomargarita namibiensis*
(B) Purple sulfur bacteria
(C) Blue-green bacteria
(D) Green sulfur bacteria
4. Which of these are selective media?
(A) Blood agar
(B) Eosin methylene blue agar
(C) MacConkey agar
(D) Mannitol salt agar
5. Which of the following are the nutritional characterization of *Escherichia coli*?
(A) Chemotrophic
(B) Autotrophic
(C) Organotrophic
(D) Heterotrophic
6. Which of the following amino acids require sulphur for their synthesis?
(A) Methionine
(B) Lysine
(C) Cystine
(D) Tryptophan
7. Phosphorus is essential component of
(A) teichoic acid
(B) nucleotides
(C) homocysteine
(D) phospholipids
8. Which of the following are functions of water in the culture medium?
(A) it is a chemical reactant
(B) It is full of nutrients

- (C) Co-factor of enzymes
(D) Resistance for sudden temperature changes
9. Which of the following are functions of Maintenance Media?
(A) Used for the maintenance of the viability
(B) Used for assay of vitamins
(C) Used for determining the bacterial content
(D) Used for maintenance of physiological characteristics
10. The Reactive Oxygen Species (ROS) produced by some bacteria are degraded by which of the following enzymes?
(A) Peroxidase
(B) Lyase
(C) Catalase
(D) Superoxide dismutase

Answer

1. (A), (C), (D)
2. (A), (B), (C)
3. (B), (C), (D)
4. (B), (C), (D)
5. (A), (C), (D)
6. (A), (C)
7. (A), (B), (D)
8. (A), (B), (D)
9. (A), (D)
10. (A), (C), (D)