

QUIZ TIME

Microbiology

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Lec: 3



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طب الأسنان
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1. Which of the following best defines taxonomy?

- A) Study of viruses and their structure
- B) Classification, naming, and identification of organisms
- C) Study of bacterial diseases
- D) Process of protein synthesis in prokaryotes

Answer: B) Classification, naming, and identification of organisms

2. Who developed the formal system of taxonomy?

- A) Louis Pasteur
- B) Carl Woese
- C) Carolus Linnaeus
- D) Robert Koch

Answer: C) Carolus Linnaeus

3. The phylogenetic classification system groups organisms based on:

- A) Morphological similarity
- B) Evolutionary and genetic relatedness
- C) Environmental distribution
- D) Nutritional requirements

Answer: B) Evolutionary and genetic relatedness

4. Which domain includes organisms with cell walls that contain peptidoglycan?

- A) Archaea
- B) Eukarya
- C) Bacteria (Eubacteria)
- D) Protista

Answer: C) Bacteria (Eubacteria)

5. Which of the following is NOT a characteristic used to differentiate the three domains of life?

- A) RNA sequence
- B) Antibiotic sensitivity
- C) Number of chromosomes
- D) Membrane lipid composition

Answer: C) Number of chromosomes

6. Which of the following describes Archaeabacteria correctly?

- A) Have peptidoglycan in their cell wall
- B) Resistant to antibiotics and live in extreme environments
- C) Sensitive to antibiotics and found in the human gut
- D) Contain a nucleus and mitochondria

Answer: B) Resistant to antibiotics and live in extreme environments

7. In binomial nomenclature, the correct way to write a microbial name is :

- A) StaphylococcusAureus
- B) StaphylococcusAureus
- C) Staphylococcus aureus
- D) staphylococcus aureus

Answer : C) Staphylococcus aureus

8. "E. coli O157:H7" refers to:

- A) A strain of E. coli with specific antigens on its surface
- B) A separate species of E. coli
- C) A eukaryotic cell type
- D) A harmless commensal strain only

Answer : A) A strain of E. coli with specific antigens on its surface

9. Which of the following statements is true about prokaryotic cells?

- A) They divide by mitosis or meiosis
- B) Their DNA is multiple and linear
- C) They have 80S ribosomes
- D) They lack a nucleus and membrane-bound organelles

Answer : D) They lack a nucleus and membrane-bound organelles

10. Why are viruses not considered living organisms?

- A) They lack genetic material
- B) They cannot reproduce
- C) They lack cellular structure and metabolic machinery
- D) They can live independently outside host cells

Answer : C) They lack cellular structure and metabolic machinery