

Chapter – 2 | Biological Classification

QUIZ PART-02

1. All bacteria are included under which kingdom?
A. Protista
B. Monera
C. Fungi
D. Plantae (B)

Explanation : All bacteria are placed under Kingdom Monera because they are prokaryotic organisms.

2. Bacteria found in extreme habitats like hot springs and highly saline areas belong to:
A. Eubacteria
B. Cyanobacteria
C. Archaeobacteria
D. Mycoplasma (C)

Explanation : Archaeobacteria survive in extreme environments such as saline areas, hot springs, and marshy regions.

3. Which type of bacteria obtains food from dead and decaying organic matter?
A. Parasitic bacteria
B. Saprophytic bacteria
C. Autotrophic bacteria
D. Photosynthetic bacteria (B)

Explanation : Saprophytic bacteria obtain nutrients from dead and rotten organic matter.

4. The spherical-shaped bacteria are called:
A. Bacilli
B. Spirilla
C. Vibrios
D. Cocci (D)

Explanation : Cocci are spherical bacteria, while bacilli are rod-shaped, vibrios are comma-shaped, and spirilla are spiral-shaped.

5. Methanogens are commonly found in the intestine of:
A. Humans
B. Ruminant animals
C. Birds
D. Fish (B)

Explanation : Methanogens are present in the intestine of ruminants like cows and buffaloes and help in methane production.

6. The cell wall of archaebacteria is made up of:
A. Cellulose
B. Peptidoglycan
C. Polysaccharides and polypeptides
D. Chitin (C)

Explanation : Archaeobacterial cell walls contain complex polysaccharides and polypeptides instead of peptidoglycan.

7. Cyanobacteria contain which pigment for photosynthesis?
A. Chlorophyll-a
B. Chlorophyll-b
C. Carotene only
D. Xanthophyll only (A)

Explanation : Cyanobacteria contain chlorophyll-a and perform photosynthesis like green plants.

8. The special cells present in Nostoc and Anabaena are called:
A. Spores
B. Heterocysts
C. Flagella
D. Plasmids (B)

Explanation : Heterocysts help cyanobacteria in nitrogen fixation from the environment.

9. True bacteria are also known as:
A. Archaeobacteria
B. Eubacteria
C. Mycoplasma
D. Protists (B)

Explanation : Eubacteria are called true bacteria and have a rigid cell wall and flagella.

10. Which bacteria show the greatest diversity in metabolism?
A. Fungi
B. Plants
C. Bacteria
D. Animals (C)

Explanation : Bacteria show greater metabolic diversity compared to other living organisms.