

Chapter – 2 | Biological Classification

QUIZ-01

1. Who proposed the Five Kingdom Classification?

- A. Aristotle
- B. Carolus Linnaeus
- C. R.H. Whittaker
- D. Dmitri Ivanowsky (C)

Explanation : R.H. Whittaker proposed the Five Kingdom Classification in 1969.

2. Which kingdom includes all prokaryotic organisms?

- A. Protista
- B. Monera
- C. Fungi
- D. Plantae (B)

Explanation : Kingdom Monera includes prokaryotic organisms such as bacteria.

3. Which of the following is not a criterion used by Whittaker for classification?

- A. Cell structure
- B. Mode of nutrition
- C. Body organisation
- D. Body colour (D)

Explanation : Whittaker used cell structure, body organisation, nutrition, reproduction and phylogenetic relationships, not body colour.

4. Rod-shaped bacteria are called:

- A. Cocci
- B. Bacilli
- C. Spirilla
- D. Vibrio (B)

Explanation : Bacilli are rod-shaped bacteria.

5. Methanogens are found in the gut of:

- A. Ruminant animals
- B. Fish
- C. Insects
- D. Birds (A)

Explanation : Methanogens occur in the gut of ruminants like cows and buffaloes and produce methane.

6. Diatomaceous earth is mainly formed by deposits of:

- A. Fungal hyphae
- B. Bacterial spores
- C. Silica-rich diatom cell walls
- D. Animal shells (C)

Explanation : Diatom cell walls contain silica and their deposits form diatomaceous earth.

7. Red tides are commonly caused by:

- A. Euglenoids
- B. Dinoflagellates
- C. Slime moulds
- D. Amoeboid protozoans (B)

Explanation : Rapid multiplication of red dinoflagellates such as *Gonyaulax* causes red tides.

8. The cell wall of fungi is mainly made of:

- A. Cellulose
- B. Chitin and polysaccharides
- C. Silica
- D. Protein only (B)

Explanation : Fungal cell walls are composed of chitin and polysaccharides.

9. Which fungus is used as a source of antibiotics?

- A. Penicillium
- B. Rhizopus
- C. Agaricus
- D. Ustilago (A)

Explanation : Penicillium is an important source of antibiotics.

10. Lichens are a symbiotic association between:

- A. Bacteria and viruses
- B. Algae and fungi
- C. Plants and animals
- D. Protozoa and bacteria (B)

Explanation : Lichens consist of algae and fungi living together; algae prepare food and fungi provide shelter and minerals.