

Chapter – 3 | Plant Kingdom

QUIZ PART-01

1. Who proposed the Five Kingdom Classification System in 1969?

- A. Bentham and Hooker
- B. Carolus Linnaeus
- C. Whittaker
- D. Joseph Dalton Hooker (C)

Explanation : Whittaker proposed the Five Kingdom Classification System in 1969.

2. Which of the following is currently not included in Plantae?

- A. Bryophytes
- B. Cyanobacteria
- C. Pteridophytes
- D. Angiosperms (B)

Explanation : Cyanobacteria were earlier treated as blue-green algae, but currently they are not included in Plantae.

3. The plant kingdom is popularly known as:

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

Explanation : Plantae kingdom is popularly known as the plant kingdom.

4. Which classification system was given by Carolus Linnaeus?

- A. Natural classification
- B. Artificial classification
- C. Phylogenetic classification
- D. Numerical classification (B)

Explanation : Carolus Linnaeus gave the artificial classification system.

5. Why is the artificial classification system not acceptable at present?

- A. It ignores all plant characters
- B. It uses only chemical characters
- C. Vegetative characters are easily affected by environment
- D. It is based only on chromosomes (C)

Explanation : Artificial classification gives importance to vegetative characters, which can be affected by environment.

6. Natural classification system considers:

- A. Only external features
- B. Only leaf shape
- C. External and internal features
- D. Only plant colour (C)

Explanation : Natural classification is based on natural affinities and includes external as well as internal features.

7. Natural classification of flowering plants was given by:

- A. Whittaker and Linnaeus
- B. Bentham and Hooker
- C. Purkinje and Whittaker
- D. Linnaeus and Hooker (B)

Explanation : George Bentham and Joseph Dalton Hooker gave the natural classification of flowering plants.

8. Present classification is mainly based on:

- A. Evolutionary relationships
- B. Colour of flowers
- C. Number of leaves only
- D. Plant height only (A)

Explanation : Present classification is based on phylogenetic relationships, meaning evolutionary relationships.

9. Cytotaxonomy is based on:

- A. Chemical constituents
- B. Chromosome number, structure and behavior
- C. Computer coding of characters
- D. Habit and leaf colour (B)

Explanation : Cytotaxonomy uses cytological information such as chromosome number, structure and behaviour.

10. Chemotaxonomy uses:

- A. Chemical constituents of plants
- B. Only stem structure
- C. Only leaf shape
- D. Only fossil record (A)

Explanation : Chemotaxonomy classifies plants by using their chemical constituents.