

Chapter – 1 | The Living World

QUIZ PART-03

1. Classification is not a single-step process because it involves:

- A. Only one name
- B. Random grouping
- C. A hierarchy of ranks
- D. Only local names (C)

Explanation : Classification has many levels such as species, genus, family, order, class, phylum/division and kingdom.

2. All taxonomic categories together form:

- A. Biological language
- B. Taxonomic hierarchy
- C. Local classification
- D. Fossil record (B)

Explanation : Taxonomic hierarchy is the ordered arrangement of taxonomic categories.

3. The smallest and basic unit of classification is:

- A. Species
- B. Kingdom
- C. Family
- D. Class (A)

Explanation : Species is the lowest and basic taxonomic category.

4. A species is generally a group of organisms that:

- A. Always live in water
- B. Have no similarities
- C. Belong to different kingdoms
- D. Share fundamental similarities and can produce fertile offspring (D)

Explanation : Members of a species are similar and can usually interbreed to produce fertile offspring.

5. In *Panthera leo*, "leo" represents:

- A. Family
- B. Specific epithet
- C. Order
- D. Kingdom (B)

Explanation : In binomial nomenclature, the second word is the specific epithet.

6. Potato, tomato and brinjal belong to the genus:

- A. *Panthera*
- B. *Homo*
- C. *Solanum*
- D. *Musca* (C)

Explanation : Potato, tomato and brinjal are species of the genus *Solanum*.

7. *Solanum*, *Petunia* and *Datura* are placed in the family:

- A. Solanaceae
- B. Felidae
- C. Canidae
- D. Poaceae (A)

Explanation : These plant genera belong to the family Solanaceae.

8. The animal order Carnivora includes:

- A. Poaceae and Muscidae
- B. Solanaceae and Convolvulaceae
- C. Diptera and Primata
- D. Felidae and Canidae (D)

Explanation : Carnivora includes families such as Felidae and Canidae.

9. Animals with notochord and dorsal hollow neural system are placed in:

- A. Arthropoda
- B. Angiospermae
- C. Chordata
- D. Solanaceae (C)

Explanation : Presence of notochord and dorsal hollow nerve cord is a key feature of Chordata.

10. Housefly belongs to the order:

- A. Primata
- B. Diptera
- C. Sapindales
- D. Poales (B)

Explanation : Housefly has the biological name *Musca domestica* and belongs to order Diptera.