

Chapter – 2 | Biological Classification

QUIZ PART-08

1. In Whittaker's Five Kingdom Classification, which of the following was not included?

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

Explanation : Viruses, viroids, and lichens were not included in Whittaker's Five Kingdom Classification.

2. Viruses are considered as:

- A. Unicellular organisms
- B. Multicellular organisms
- C. Acellular organisms
- D. Prokaryotic organisms (C)

Explanation : Viruses are acellular because they do not have a cellular structure.

3. Viruses are considered a connecting link between:

- A. Plants and animals
- B. Living and non-living things
- C. Prokaryotes and eukaryotes
- D. Fungi and plants (B)

Explanation : Viruses show characteristics of both living and non-living things, so they act as a connecting link between them.

4. Outside the host cell, viruses:

- A. Perform respiration
- B. Crystallize
- C. Reproduce actively
- D. Perform photosynthesis (B)

Explanation : Viral structures can crystallize outside the cell and remain inactive.

5. The word "virus" is derived from which language?

- A. Greek
- B. Latin
- C. French
- D. German (B)

Explanation : The word virus comes from Latin and means "liquid poison or poisonous liquid."

6. The discovery of viruses is credited to:

- A. W.M. Stanley
- B. M.W. Beijerinck
- C. Dmitri Ivanovsky
- D. Whittaker (C)

Explanation : Russian scientist Dmitri Ivanovsky discovered the Tobacco Mosaic Virus in 1892.

7. Dmitri Ivanovsky identified:

- A. HIV
- B. Tobacco Mosaic Virus
- C. Adenovirus
- D. Bacteriophage (B)

Explanation : Ivanovsky identified Tobacco Mosaic Virus (TMV).

8. M.W. Beijerinck (1898) confirmed that:

- A. Viruses can be crystallized
- B. Infected tobacco sap can infect healthy tobacco plants
- C. Viruses contain both DNA and RNA
- D. Viruses are larger than bacteria (B)

Explanation : Beijerinck confirmed that sap from infected tobacco plants could infect healthy tobacco plants and called it "Contagium Vivum Fluidum."

9. W.M. Stanley (1935) reported that:

- A. Viruses have a cell wall
- B. Viruses can be crystallized
- C. Viruses perform photosynthesis
- D. Viruses are bacteria (B)

Explanation : Stanley reported that viruses can be crystallized and the crystals mainly consist of protein.

10. Viruses are:

- A. Obligate intracellular parasites
- B. Free-living organisms
- C. Autotrophic organisms
- D. Saprophytic organisms (A)

Explanation : Viruses are inactive outside the cell and replicate only inside host cells, so they are obligate intracellular parasites.