

Chapter – 2 | Biological Classification

QUIZ PART-05

1. The fusion of protoplasm of two gametes is called:

- A. Karyogamy
- B. Plasmogamy
- C. Meiosis
- D. Fragmentation (B)

Explanation : Plasmogamy is the fusion of protoplasm of two motile or non-motile gametes.

2. Fusion of two nuclei during sexual reproduction is called:

- A. Budding
- B. Fragmentation
- C. Karyogamy
- D. Spore formation (C)

Explanation : Karyogamy is the process of fusion of two nuclei after plasmogamy.

3. Which of the following is a method of vegetative reproduction in fungi?

- A. Fragmentation
- B. Karyogamy
- C. Meiosis
- D. Plasmogamy (A)

Explanation : Fungi reproduce vegetatively by fragmentation, fission, and budding.

4. Asexual reproduction in fungi occurs through:

- A. Oospores, ascospores and basidiospores
- B. Conidia and sporangiospores
- C. Zygospores only
- D. Gametes only (B)

Explanation : Asexual reproduction occurs through spores such as conidia, sporangiospores, and motile zoospores.

5. In ascomycetes and basidiomycetes, the dikaryotic stage contains:

- A. One diploid nucleus
- B. Two haploid nuclei per cell
- C. No nucleus
- D. Four diploid nuclei (B)

Explanation : The dikaryotic stage ($n + n$) contains two haploid nuclei per cell.

6. The four groups of fungi are classified on the basis of:

- A. Colour and size only
- B. Habitat only
- C. Mycelium, spore formation and fruiting body formation
- D. Mode of nutrition only (C)

Explanation : Fungi are classified based on morphology of mycelium, mode of spore formation, and fruiting body formation.

7. Phycomycetes have:

- A. Septate mycelium
- B. Aseptate and coenocytic mycelium
- C. No mycelium
- D. Only unicellular body (B)

Explanation : The mycelium of Phycomycetes is aseptate and coenocytic.

8. In Phycomycetes, asexual spores are produced inside:

- A. Fruiting body
- B. Sporangium
- C. Hyphae
- D. Capsule (B)

Explanation : Zoospores and aplanospores are produced endogenously inside the sporangium.

9. Mucor and Rhizopus belong to:

- A. Ascomycetes
- B. Basidiomycetes
- C. Phycomycetes
- D. Deuteromycetes (C)

Explanation : Mucor and Rhizopus are examples of Phycomycetes.

10. Albugo is an example of:

- A. Bread fungus
- B. Parasitic fungus on mustard
- C. Mushroom fungus
- D. Yeast fungus (B)

Explanation : Albugo is a parasitic fungus found on mustard plants.