

## NEET Chapter 2: Biological Classification previous year questions from 2021 to 2025, with detailed answer explanations.

**Q1. In five-kingdom classification, which single kingdom contains blue-green algae, nitrogen-fixing bacteria and methanogenic archaeobacteria?**

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

**NEET 2025**

☐ **Explanation:**

Blue-green algae (cyanobacteria), nitrogen-fixing bacteria like *Rhizobium*, and methanogens like *Methanobacterium* are all **prokaryotes**. The five-kingdom classification (by Whittaker) includes **all prokaryotic organisms under Kingdom Monera**. Protista has eukaryotes (unicellular), Plantae includes multicellular photosynthetic organisms, and Fungi are eukaryotic decomposers.

☐ **Correct Answer:** A) Monera

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**Q2. Match the following organisms with their respective modes of nutrition:**

- A. Euglenoid –
- B. Dinoflagellate –
- C. Slime mold –
- D. Plasmodium –

- I) Parasitic
- II) Photosynthetic
- III) Saprophytic
- IV) Parasitic

Options:

- A) A–II, B–III, C–IV, D–I
- B) A–II, B–II, C–III, D–IV
- C) A–II, B–I, C–III, D–IV
- D) A–IV, B–II, C–III, D–I

**NEET 2024**

☐ **Explanation:**

- **Euglenoids** like *Euglena* are both autotrophic (photosynthetic) and heterotrophic, but primarily considered photosynthetic.
- **Dinoflagellates** (like *Gonyaulax*) are mostly photosynthetic.
- **Slime molds** are saprophytic – they feed on decaying matter.
- **Plasmodium**, a protozoan parasite, causes malaria.

- ☐ **Correct Match:** A–II, B–II, C–III, D–IV
  - ☐ **Correct Answer:** B) A–II, B–II, C–III, D–IV
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**Q3. Fungi usually store their reserve food as:**

- A) Starch
- B) Glycogen and oil
- C) Lipid
- D) Protein

**NEET 2023**

☐ **Explanation:**

Unlike plants that store **starch**, **fungi** store **glycogen** (like animals) and oil as reserve food. This is one reason fungi are placed closer to animals than to plants in molecular taxonomy.

- ☐ **Correct Answer:** B) Glycogen and oil
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**Q4. In five-kingdom classification, unicellular green algae are included in the kingdom:**

- A) Metaphyta
- B) Protista
- C) Monera
- D) Metazoa

**NEET 2022**

☐ **Explanation:**

**Unicellular green algae** like *Chlamydomonas* are eukaryotic and photosynthetic. They belong to **Kingdom Protista**, which includes all unicellular eukaryotes. Metaphyta and Metazoa are outdated terms referring to multicellular plants and animals, respectively. Monera includes prokaryotes.

- ☐ **Correct Answer:** B) Protista
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**Q5. Which of the following is correct for slime moulds?**

- A) They lack cell wall
- B) They show animal-like and plant-like features
- C) They are always multicellular
- D) They are photosynthetic

**NEET 2022**

☐ **Explanation:**

**Slime molds** behave like **animals in their movement and feeding** (pseudopodia, phagocytosis), and **plants in spore formation**. They are **saprophytic** and form a multinucleated mass called plasmodium. They are not photosynthetic and do have cell walls during the spore-forming stage.

- ☐ **Correct Answer:** B) They show animal-like and plant-like features
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**Q6. In five-kingdom classification, which kingdom includes blue-green algae, nitrogen-fixing bacteria, and methanogens?**

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

**NEET 2021**

☐ **Explanation:**

**Blue-green algae (cyanobacteria), nitrogen-fixing bacteria, and methanogenic archaea** are all **unicellular prokaryotes**. In the five-kingdom system, all such organisms fall under **Kingdom Monera**.

☐ **Correct Answer:** A) Monera

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**Q7. Diatoms are considered as the chief 'producers' in oceans because:**

- A) They are photosynthetic
- B) They produce silica
- C) They have oil deposits
- D) They form blooms

**NEET 2021**

☐ **Explanation:**

**Diatoms** are microscopic algae with **siliceous cell walls** and are **photosynthetic**. They form a major component of **phytoplankton**, which performs photosynthesis and supports the oceanic food chain. Hence, they are called the **chief producers** in oceans.

☐ **Correct Answer:** A) They are photosynthetic

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