

**CHAPTER – 2**  
**Biological Classification**

1. Who proposed the five-kingdom classification?

- a) Carl Linnaeus
- b) Ernst Haeckel
- c) R.H. Whittaker
- d) Robert Hooke

2. Which of the following kingdoms consists of prokaryotic organisms?

- a) Protista
- b) Monera
- c) Fungi
- d) Plantae

3. Which kingdom includes unicellular eukaryotes?

- a) Protista
- b) Monera
- c) Fungi
- d) Animalia

4. Which of the following is a characteristic of fungi?

- a) Autotrophic nutrition
- b) Multicellular and unicellular

- c) Prokaryotic
- d) Photosynthesis

5. In which kingdom are organisms primarily heterotrophic and lack cell walls?

- a) Protista
- b) Animalia
- c) Plantae
- d) Fungi

6. Which of the following is NOT a feature of kingdom Monera?

- a) Lack of membrane-bound organelles
- b) Prokaryotic cells
- c) Multicellular
- d) Presence of cell wall

7. What is the primary mode of reproduction in bacteria?

- a) Binary fission
- b) Sexual reproduction
- c) Budding
- d) Fragmentation

8. Which of the following is an example of a member of kingdom Protista?

- a) Amoeba
- b) E. coli
- c) Penicillium
- d) Moss

9. What is the cell wall of fungi made of?

- a) Cellulose
- b) Peptidoglycan
- c) Chitin
- d) Lignin

10. Which of the following are saprophytic organisms?

- a) Algae
- b) Fungi
- c) Viruses
- d) Cyanobacteria

11. Which of the following kingdoms contains both autotrophic and heterotrophic organisms?

- a) Fungi
- b) Plantae

- c) Protista
- d) Animalia

12. Cyanobacteria are also known as:

- a) Green algae
- b) Blue-green algae
- c) Brown algae
- d) Red algae

13. Which of the following organisms lacks a true nucleus?

a) Paramecium

b) Bacteria

c) Fungi

d) Algae

14. What type of nutrition is seen in fungi?

a) Autotrophic

b) Heterotrophic by absorption

c) Photosynthetic

d) Parasitic

15. Which of the following is the primary characteristic of kingdom Protista?

a) Prokaryotic cells

b) Multicellularity

c) Eukaryotic cells

d) Lack of membrane-bound organelles

16. Which of the following organisms belongs to kingdom Monera?

a) Amoeba

b) Yeast

c) E. coli

d) Plasmodium

17. Viruses are not placed in any of the five kingdoms because:

a) They do not have cell walls

b) They do not reproduce on their own

c) They lack nucleic acids

d) They are non-living outside a host

18. Which of the following is a characteristic of Archaeobacteria?

a) Ability to survive in extreme environments

b) Presence of peptidoglycan in the cell wall

c) Multicellularity

d) Eukaryotic cells

19. Which of the following are primary decomposers in ecosystems?

- a) Plants
- b) Animals
- c) Fungi and bacteria
- d) Viruses

20. Which of the following organisms can fix atmospheric nitrogen?

- a) Algae
- b) Cyanobacteria
- c) Protozoa
- d) Fungi

21. Which kingdom includes organisms that are both autotrophic and heterotrophic?

- a) Fungi
- b) Protista
- c) Animalia
- d) Plantae

22. Which of the following is a feature of eubacteria?

- a) Lack of true nucleus
- b) Multicellularity

- c) Absence of cell wall
- d) Presence of mitochondria

23. What is the term used for bacteria that live in extreme conditions like hot springs and salt lakes?

- a) Cyanobacteria
- b) Archaeobacteria
- c) Protista
- d) Eubacteria

24. Which of the following is NOT a member of kingdom Protista?

- a) Euglena
- b) Amoeba
- c) Paramecium
- d) Rhizopus

25. Fungi obtain nutrients by:

- a) Photosynthesis
- b) Absorption
- c) Ingestion
- d) Chemosynthesis

26. Which of the following is NOT a characteristic of viruses?

- a) Ability to reproduce independently
- b) Non-cellular structure

- c) Lack of metabolic activity outside a host
- d) Genetic material enclosed in a protein coat

27. Which of the following kingdoms includes unicellular organisms that have membrane-bound organelles?

- a) Monera
- b) Protista
- c) Plantae
- d) Fungi

28. Which of the following is a prokaryote?

- a) Mushroom
- b) Cyanobacteria
- c) Paramecium
- d) Euglena

29. Which kingdom does *Rhizopus* belong to?

- a) Protista
- b) Fungi
- c) Plantae
- d) Monera



30. Which of the following is a member of the kingdom Animalia?

- a) Paramecium
- b) Yeast
- c) Lion
- d) Fucus

31. Which of the following is a unique feature of Archaeobacteria compared to Eubacteria?

- a) Presence of peptidoglycan in the cell wall
- b) Ability to survive in extreme conditions
- c) Eukaryotic nature
- d) Photosynthesis

32. Which of the following is an example of an autotrophic protist?

- a) Amoeba
- b) Euglena
- c) Paramecium
- d) Rhizopus

33. Which of the following is classified as a slime mold?

- a) Algae

- b) Paramecium
- c) Myxomycota
- d) Fungi

34. Which of the following has a cell wall made of cellulose?

- a) Fungi
- b) Plantae
- c) Monera
- d) Animalia

35. Which of the following kingdoms include organisms that lack chlorophyll?

- a) Plantae
- b) Animalia
- c) Protista
- d) Fungi

36. Which of the following organisms does NOT belong to the fungi kingdom?

- a) Penicillium
- b) Mucor
- c) Yeast
- d) Chlamydomonas

37. What are the primary photosynthetic organisms in aquatic environments?

- a) Algae
- b) Fungi
- c) Viruses
- d) Bacteria

38. Which of the following is NOT a characteristic of protists?

- a) Eukaryotic cells
- b) Mostly unicellular
- c) Multicellular with specialized tissues
- d) Presence of membrane-bound organelles

39. Which group includes autotrophic and heterotrophic members?

- a) Fungi
- b) Protista
- c) Animalia
- d) Monera

40. Which of the following is an example of a photosynthetic protist?

- a) Amoeba
- b) Euglena
- c) Paramecium
- d) Mucor

41. Which of the following kingdoms includes decomposers?

- a) Protista
- b) Plantae
- c) Fungi
- d) Animalia

42. Which of the following are commonly referred to as blue-green algae?

- a) Archaeobacteria
- b) Eubacteria
- c) Cyanobacteria
- d) Fungi

43. What is the main role of fungi in an ecosystem?

- a) Producers

- b) Decomposers
- c) Primary consumers
- d) Nitrogen fixers

44. Which of the following is a non-cellular infectious agent?

- a) Fungi
- b) Protists
- c) Viruses
- d) Bacteria

45. Which kingdom does Spirogyra belong to?

- a) Protista
- b) Fungi
- c) Plantae
- d) Monera

46. Which of the following organisms have

a prokaryotic cell structure?

- a) Protists
- b) Cyanobacteria
- c) Fungi
- d) Algae

47. Which of the following organisms belongs to the kingdom Fungi?

- a) Amoeba
- b) Yeast
- c) Spirogyra
- d) Paramecium

48. Which of the following is a characteristic feature of Monera?

- a) Multicellularity
- b) Prokaryotic cells
- c) Eukaryotic cells
- d) Lack of a cell wall

49. Which of the following is an example of a unicellular fungus?

- a) Penicillium
- b) Yeast
- c) Mucor

d) Rhizopus

50. Which kingdom includes multicellular organisms with a cell wall made of cellulose?

a) Protista

b) Plantae

c) Fungi

d) Animalia

**Answer Key for Chapter 2 (Biological Classification)**

|    |    |    |    |    |
|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  |
| C  | B  | A  | B  | B  |
| 6  | 7  | 8  | 9  | 10 |
| C  | A  | A  | C  | B  |
| 11 | 12 | 13 | 14 | 15 |
| C  | B  | B  | B  | C  |
| 16 | 17 | 18 | 19 | 20 |
| C  | D  | A  | C  | B  |
| 21 | 22 | 23 | 24 | 25 |
| B  | A  | B  | D  | B  |
| 26 | 27 | 28 | 29 | 30 |
| A  | B  | B  | B  | C  |
| 31 | 32 | 33 | 34 | 35 |
| B  | B  | C  | B  | D  |
| 36 | 37 | 38 | 39 | 40 |
| D  | A  | C  | B  | B  |
| 41 | 42 | 43 | 44 | 45 |
| C  | C  | B  | C  | A  |
| 46 | 47 | 48 | 49 | 50 |
| B  | B  | B  | B  | B  |