

# **CLASS XI BIO CH:2**

## **SET 3: BIOLOGICAL CLASSIFICATION**

**1–10**

1. The two-kingdom classification was proposed by —
  - a) Aristotle
  - b) Linnaeus
  - c) Whittaker
  - d) Haeckel
  
2. The two-kingdom classification failed mainly because —
  - a) It was based only on morphology
  - b) It separated unicellular and multicellular organisms
  - c) It ignored prokaryotes
  - d) It considered only animals
  
3. Whittaker's system was based on which main criteria?
  - a) Habitat and morphology
  - b) Cell structure, nutrition, reproduction, and phylogeny
  - c) Habitat and color
  - d) DNA composition only
  
4. Which kingdom includes organisms without a nuclear membrane?
  - a) Monera
  - b) Protista
  - c) Fungi
  - d) Animalia
  
5. Which of the following kingdoms has organisms with chitin cell walls?
  - a) Plantae
  - b) Monera
  - c) Fungi
  - d) Protista
  
6. The term "cyanobacteria" refers to —
  - a) Blue-green algae
  - b) Red algae
  - c) Brown algae
  - d) Green algae
  
7. The cell wall of most bacteria is made up of —
  - a) Cellulose
  - b) Chitin
  - c) Peptidoglycan
  - d) Silica

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8. The most primitive organisms according to Whittaker are —
- Protists
  - Monerans
  - Fungi
  - Plants
9. Archaeobacteria are found in —
- Normal soil only
  - Extreme environments
  - Freshwater ponds
  - Air
10. Methanogens produce —
- Methanol
  - Methane
  - Ethanol
  - Carbon dioxide
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## 11–20

11. Halophiles live in —
- Acidic conditions
  - Salty environments
  - Hot springs
  - Cold deserts
12. Thermoacidophiles survive because —
- They have heat-resistant spores
  - They have unique enzymes and cell walls
  - They perform photosynthesis
  - They are eukaryotic
13. Chemosynthetic bacteria are important because they —
- Produce oxygen
  - Recycle nutrients
  - Cause diseases
  - Fix atmospheric nitrogen only
14. Blue-green algae differ from green algae in —
- Chlorophyll type
  - Cell type (prokaryotic vs eukaryotic)
  - Mode of nutrition
  - Shape

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15. Which of the following causes citrus canker?
- Virus
  - Fungus
  - Bacterium
  - Viroid
16. Which kingdom includes unicellular eukaryotes?
- Monera
  - Protista
  - Fungi
  - Plantae
17. Diatoms have overlapping shells made of —
- Chitin
  - Silica
  - Protein
  - Calcium carbonate
18. Diatomaceous earth is used for —
- Making cement
  - Filtration and polishing
  - Fertilization
  - Insulation
19. The pigment composition of euglenoids resembles —
- Fungi
  - Higher plants
  - Algae
  - Bacteria
20. Which of the following have two flagella — one longitudinal and one transverse?
- Euglenoids
  - Dinoflagellates
  - Protozoans
  - Chrysophytes

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## **21–30**

21. Red tides are caused by —
- Euglenoids
  - Red dinoflagellates
  - Cyanobacteria
  - Red algae

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22. Slime moulds obtain food by —
- Photosynthesis
  - Absorbing dead organic matter
  - Parasitism
  - Symbiosis
23. The body of a slime mould during growth is called —
- Mycelium
  - Plasmodium
  - Thallus
  - Colony
24. Protozoans are placed under —
- Protista
  - Animalia
  - Monera
  - Fungi
25. Amoeboid protozoans capture food by —
- Flagella
  - Cilia
  - Pseudopodia
  - Tentacles
26. Trypanosoma causes —
- Malaria
  - Sleeping sickness
  - Dysentery
  - Cholera
27. Paramecium moves by —
- Pseudopodia
  - Cilia
  - Flagella
  - Amoeboid flow
28. The infectious stage in the life cycle of Plasmodium is —
- Trophozoite
  - Sporozoite
  - Gametocyte
  - Zygote
29. Which of the following reproduces by fragmentation, fission and budding?
- Fungi
  - Monera
  - Protista
  - Virus

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30. The common bread mould is —
- Aspergillus
  - Rhizopus
  - Penicillium
  - Puccinia
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## 31–40

31. In fungi, the network of hyphae is called —
- Mycelium
  - Plasmodium
  - Colony
  - Thallus
32. The coenocytic hyphae are —
- Multicellular and septate
  - Multinucleate and non-septate
  - Uninucleate
  - Septate with cross walls
33. Fungi obtain their nutrition by —
- Photosynthesis
  - Absorption
  - Engulfing food
  - Diffusion
34. In fungi, asexual spores produced exogenously are —
- Conidia
  - Sporangiospores
  - Zoospores
  - Oospores
35. The fungi with no known sexual stage are called —
- Perfect fungi
  - Imperfect fungi
  - True fungi
  - Mycorrhiza
36. Mushrooms belong to the class —
- Ascomycetes
  - Basidiomycetes
  - Deuteromycetes
  - Phycomycetes

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37. The parasitic fungus *Puccinia* belongs to —
- Ascomycetes
  - Basidiomycetes
  - Deuteromycetes
  - Phycomycetes
38. The fungus used in antibiotic production is —
- Penicillium
  - Aspergillus
  - Neurospora
  - Yeast
39. The edible fungi morels and truffles belong to —
- Ascomycetes
  - Basidiomycetes
  - Deuteromycetes
  - Phycomycetes
40. Mycorrhiza helps plants mainly in —
- Photosynthesis
  - Nitrogen fixation
  - Water and mineral absorption
  - Reproduction

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## 41–50

41. Which kingdom includes heterotrophic, multicellular organisms without cell walls?
- Plantae
  - Animalia
  - Protista
  - Fungi
42. Animal food is stored in the form of —
- Starch
  - Cellulose
  - Glycogen
  - Fatty acids only
43. The genetic material in viruses is —
- DNA only
  - RNA only
  - Either DNA or RNA
  - Both DNA and RNA

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44. Tobacco Mosaic Virus (TMV) has —  
a) DNA  
b) RNA  
c) Protein only  
d) DNA and RNA
45. Bacteriophages infect —  
a) Fungi  
b) Bacteria  
c) Algae  
d) Protozoa
46. The crystalline form of viruses outside host cells indicates that they are —  
a) Non-living  
b) Living  
c) Active  
d) Autotrophic
47. Viroids are infectious agents made up of —  
a) Protein coat only  
b) Free RNA without protein coat  
c) DNA and protein  
d) RNA and protein coat
48. The disease caused by viroid is —  
a) Potato spindle tuber  
b) Mad cow disease  
c) Influenza  
d) AIDS
49. Prions differ from viruses as they lack —  
a) Nucleic acid  
b) Protein coat  
c) Capsid  
d) RNA
50. Lichens are formed by a symbiotic association between —  
a) Algae and fungi  
b) Bacteria and fungi  
c) Virus and algae  
d) Algae and bacteria

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

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