

CLASS XI BIO CH:2

SET 1: BIOLOGICAL CLASSIFICATION (50 MCQs)

1–10

1. Who proposed the Five Kingdom Classification system?
 - a) Linnaeus
 - b) R.H. Whittaker
 - c) Aristotle
 - d) Haeckel
2. The main criteria for Whittaker's classification included all except —
 - a) Cell structure
 - b) Body organization
 - c) Color of the organism
 - d) Mode of nutrition
3. Which of the following is not a characteristic of Kingdom Monera?
 - a) Prokaryotic cell
 - b) Presence of nuclear membrane
 - c) May be autotrophic or heterotrophic
 - d) Non-cellulosic cell wall
4. Archaeobacteria can survive in extreme environments because —
 - a) They are eukaryotes
 - b) They have resistant spores
 - c) They have a unique cell wall composition
 - d) They lack a plasma membrane
5. Methanogens are found in —
 - a) Human intestine
 - b) Cattle gut
 - c) Hot springs
 - d) Acidic soils
6. Cyanobacteria are also called —
 - a) Green algae
 - b) Blue-green algae
 - c) Red algae
 - d) Brown algae
7. The specialized nitrogen-fixing cells in cyanobacteria are called —
 - a) Zoospores
 - b) Heterocysts
 - c) Ascocarps
 - d) Basidia

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8. Mycoplasma differ from bacteria because they —
 - a) Are multicellular
 - b) Lack cell wall
 - c) Have chlorophyll
 - d) Have nuclear membrane
 9. The group of single-celled eukaryotes is —
 - a) Monera
 - b) Protista
 - c) Fungi
 - d) Plantae
 10. Diatom cell walls are made of —
 - a) Cellulose
 - b) Chitin
 - c) Silica
 - d) Protein
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11. Diatomaceous earth is formed from —
 - a) Fungal mycelia
 - b) Bacterial cells
 - c) Diatom shells
 - d) Algal cellulose
12. Dinoflagellates move with the help of —
 - a) Cilia
 - b) Flagella
 - c) Pseudopodia
 - d) Mycelia
13. Red tides in the sea are caused by —
 - a) Blue-green algae
 - b) Red dinoflagellates
 - c) Brown algae
 - d) Euglenoids
14. The pellicle of Euglena is composed of —
 - a) Chitin
 - b) Protein
 - c) Cellulose
 - d) Silica

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15. Slime moulds are —
a) Photosynthetic protists
b) Saprophytic protists
c) Parasitic protists
d) Symbiotic protists
16. Amoeboid protozoans move by —
a) Cilia
b) Flagella
c) Pseudopodia
d) Spores
17. The protozoan causing sleeping sickness is —
a) Plasmodium
b) Entamoeba
c) Trypanosoma
d) Paramecium
18. Which of the following is a ciliated protozoan?
a) Amoeba
b) Paramecium
c) Euglena
d) Trypanosoma
19. Plasmodium belongs to which group?
a) Sporozoans
b) Ciliates
c) Flagellates
d) Amoeboids
20. The body of most fungi is made up of —
a) Cellulose fibers
b) Hyphae forming mycelium
c) Pseudopodia
d) Flagella

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21. Cell wall of fungi is made of —
a) Cellulose
b) Peptidoglycan
c) Chitin and polysaccharides
d) Silica

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22. Fungi that absorb food from dead organic matter are called —
a) Parasites
b) Saprophytes
c) Symbionts
d) Decomposers
23. Lichens represent a symbiotic association between —
a) Algae and bacteria
b) Algae and fungi
c) Fungi and viruses
d) Bacteria and fungi
24. Asexual reproduction in fungi occurs by —
a) Fission
b) Budding
c) Spore formation
d) Fragmentation only
25. Dikaryotic phase ($n + n$) occurs in —
a) Ascomycetes and basidiomycetes
b) Phycomycetes
c) Deuteromycetes
d) Monera
26. Bread mould belongs to —
a) Phycomycetes
b) Ascomycetes
c) Basidiomycetes
d) Deuteromycetes
27. Yeast belongs to —
a) Phycomycetes
b) Ascomycetes
c) Basidiomycetes
d) Deuteromycetes
28. The sexual spores in Ascomycetes are —
a) Zoospores
b) Conidia
c) Ascospores
d) Basidiospores
29. Mushrooms belong to —
a) Phycomycetes
b) Ascomycetes
c) Basidiomycetes
d) Deuteromycetes

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30. In Basidiomycetes, basidiospores are produced —

- a) Endogenously
 - b) Exogenously
 - c) By budding
 - d) By fission
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31. The imperfect fungi are placed in —

- a) Basidiomycetes
- b) Deuteromycetes
- c) Phycomycetes
- d) Ascomycetes

32. Alternaria belongs to —

- a) Ascomycetes
- b) Deuteromycetes
- c) Phycomycetes
- d) Basidiomycetes

33. Kingdom Plantae includes —

- a) All autotrophic prokaryotes
- b) All eukaryotic autotrophs with chlorophyll
- c) All heterotrophs
- d) Only algae

34. The phenomenon of alternation of generations occurs in —

- a) Fungi
- b) Plants
- c) Animals
- d) Protists

35. Kingdom Animalia includes —

- a) Autotrophic organisms
- b) Multicellular heterotrophs without cell walls
- c) Single-celled eukaryotes
- d) Unicellular autotrophs

36. Food reserve in animals is stored as —

- a) Starch
- b) Cellulose
- c) Glycogen
- d) Lipids only

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37. Viruses are —
- a) Prokaryotic organisms
 - b) Non-cellular infectious agents
 - c) Eukaryotic microbes
 - d) Cellular parasites
38. The genetic material in viruses is —
- a) Both RNA and DNA
 - b) Only DNA
 - c) Either RNA or DNA
 - d) Only protein
39. Tobacco Mosaic Virus (TMV) contains —
- a) DNA
 - b) RNA
 - c) Both DNA and RNA
 - d) No nucleic acid
40. The protein coat of a virus is called —
- a) Envelope
 - b) Capsid
 - c) Core
 - d) Capsule
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41. Viroids differ from viruses because they lack —
- a) RNA
 - b) DNA
 - c) Protein coat
 - d) Nucleic acid
42. The infectious protein particles are known as —
- a) Virions
 - b) Prions
 - c) Viroids
 - d) Lichens
43. Mad cow disease in cattle is caused by —
- a) Virus
 - b) Bacteria
 - c) Prions
 - d) Viroids

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44. Lichens do not grow in —
a) Polluted areas
b) Humid regions
c) Forests
d) Rocky places
45. The algal partner in lichens is called —
a) Mycobiont
b) Phycobiont
c) Zoobiont
d) Chlorobiont
46. The fungal partner in lichens is called —
a) Mycobiont
b) Phycobiont
c) Zoobiont
d) Sporobiont
47. Which of the following is an example of mutualism?
a) Lichen
b) Rust on wheat
c) Cuscuta on host
d) Plasmodium in humans
48. The first scientist to propose a classification of organisms was —
a) Linnaeus
b) Aristotle
c) Whittaker
d) Haeckel
49. The term “virus” meaning “poison” was coined by —
a) Ivanowsky
b) Beijerinck
c) Pasteur
d) Stanley
50. The first virus to be crystallized was —
a) HIV
b) TMV
c) Bacteriophage
d) Influenza virus
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Answers: Set 1

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