

Board – CBSE

Class – 11

Chapter – Biological classification

1. How are bacteria classified on the basis of their mode of nutrition?
2. Tabulate the characteristics of five kingdoms, on the basis of cell type, cell wall, nuclear membrane, body organisation and mode of nutrition.
3. Who proposed a six kingdom system of classification?
4. How can we say that cyanobacteria are photosynthetic autotrophs?
5. In what way sexual reproduction of bacteria is different from eukaryotic organisms?
6. What is pellicle and what is its advantage in Euglenoids?
7. What are basidiocarps?
8. (a) What are heterocysts?  
(b) Write a note on dikaryophase  
(c) Differentiate kingdom Protista and Fungi in terms of their nutrition.
9. Give two examples of Methanogens, Halophiles and Thermoacidophiles.
10. How are bacteria grouped on the basis of their shape?
11. (a) Write a short note on methanogens.  
(b) Write the shape of Coccus, Bacillus, Vibrio and Spirillum type of bacteria.
12. In which habitat cyanobacteria exist? Give their effect on aquatic animals.
13. Why chemosynthetic bacteria oxidise inorganic substances?
14. (a) Name the common forms of basidiomycetes.  
(b) What is the habitat of basidiomycetes?  
(c) Which type of mycelium do they have?
15. Discuss the habitat and mode of nutrition of chrysophytes.
16. (a) Discuss fragmentation, budding and fission in fungi.

- (b) What is coenocytic hyphae?
17. (a) What is a bacterial virus?
- (b) What is the advantage of capsomeres?
- (c) Do viruses have their own genetic material?
- (d) Name the infectious part of the virus.
18. Who was the founder of the five kingdom system of classification?
19. What advantages does the five-kingdom classification have over the two-kingdom classification?
20. Why are cyanobacteria used in agricultural fields for crop improvement?
21. Name the eukaryotic kingdoms in the five-kingdom classification proposed by Whittaker.
22. State the uses of heterotrophic bacteria and archaebacteria which are economically important.
23. Cyanobacteria and heterotrophic bacteria are very different from each other but fall under eubacteria of the kingdom Monera. Is this type of grouping justified?
24. Are viruses living or nonliving?
25. Give an account of the asexual reproduction by spores in algae.
26. Enlist the various algae and fungi that have commercial values in medicines, food, and chemicals.
27. How many types of bacteria are there?
28. What are parasitic plants?
29. Discuss the salient features of viruses with the help of diagrams?
30. Give scientific name of species of fungus:-
- (a) Produces a plant disease.
- (b) Is edible
- (c) A source of antibiotic
- (d) Used in the manufacture of ethanol.