

Class: XI
Subject: Biology
Topic: Biological classification
No. of Questions: 25

- Q1. Discuss how classification systems have undergone several changes over a period of time?
- Q2. State two economically important uses of :
- (a) heterotrophic bacteria
 - (b) archebacteria.
- Q3. What is the nature of cell-walls in diatoms?
- Q4. Find out what do the terms 'algal bloom' and 'red tides' signify.
- Q5. How are viroids different from viruses?
- Q6. Describe briefly the four major groups of protozoa.
- Q7. Plants are autotrophic. Can you think of some plants that are partially heterotrophic?
- Q8. What do the terms phycobiont and mycobiont signify?
- Q9. Give a comparative account of the classes of kingdom Fungi under the following:
- (i) Mode of nutrition
 - (ii) Mode of reproduction
- Q10. What are the characteristic features of Euglenoids?
- Q11. Give a brief account of viruses with respect to their structure and nature of genetic material. Also name four common viral diseases.

- Q12. Organize a on the topic – Are viruses living or non-living?
- Q13. How ascomycetes are different from basidiomycetes ?
- Q14. Compare the different types of fruiting bodies in fungi.
- Q15. (a) What are protozoans ? Give two examples each of free-living and parasitic forms.
(b) What are slime-moulds? How are they different from true fungi ? Give one example each of cellular and acellular slime moulds.
(c) Differentiate between ascus and basidium.
- Q16. What is the name of fully formed virus particle?
- Q17. What is the chemical nature of capsid?
- Q18. Give one reason: why are viruses regarded as biological systems?
- Q19. Give one reason: why are viruses regarded as non-living particles?
- Q20. Name the virus which causes AIDS in human beings.
- Q21. Viruses that infect bacteria multiply and cause their lysis, are called
a) Lipolytic
b) Lytic
c) Lysogenic
d) Lysozymes
- Q22. Among rust, smut and mushroom all the three
a) Are pathogens
b) Are saprobes
c) Bear ascocarps
d) Bear basidiocarps

- Q23. Which is correct:
- a) Slime moulds are haploid
 - b) Protozoan lack cell wall
 - c) Dinoflagellates are immotiles
 - d) Pellicle is absent in Euglena
- Q24. Contagium vivum fluidum was proposed by
- a) D.J. Ivanowsky
 - b) M.W. Beijerinck
 - c) Stanley
 - d) Robert Hook
- Q25. Nuclear membrane is absent in
- a) Penicillium
 - b) Agaricus
 - c) Volvox
 - d) Nostoc