Question Bank.

Biology and Diversity of Fungi, Algae and Bryophytes

Questions carrying 16 marks each

Q.1. Describe in brief general characters of fungi.

Q.2. Give the classification of fungi as elaborated by Hawksworth et al (1995).

Q.3. Describe the life cycle of *Taphrina.*

Q.4. Write in detail on general characters of *Uredinales*.

Q.5. Describe the general characters of *Ustilaginales*.

Q.6. Describe the general characters of Saprolegniales.

Q.7. Describe the morphology of Sporangiophores in Peronosporales.

Q.8. Describe the life cycle of *Dictyostelium discoideum.*

Q.9.Write in detail on life cycle of *Plasmodiophora brassicae.*

Q.10.Describe general characters of *Stemonitales.*

Q.11. Explain the classification of algae up to division level.

Q.12. Describe the role of algae in human warfare.

Q.13. Describe the class Chlorophyceae with suitable example.

Q.14. Explain the culture technique in algae.

Q.15. What are the industrial applications of algae.

Q.16. Describe the reproduction in algae with example and diagram.

Q.17. Explain thallus organization in algae with suitable example and diagram.

Q.18. Write in detail on distribution, habit, morphology and reproduction of Sphaerocarpales

Q.19. Describe distribution, habit, morphology and reproduction of Takakiales

Q.20. Write in detail on distribution, habit, morphology and reproduction of Jungermanniales

Q.21. Describe distribution, habit, morphology and reproduction of Metzeriales

Q.22. Write in detail on distribution, habit, morphology and reproduction of Polytrichales

Questions carrying 8 marks each.

Q.11. General characters of Glomales.

Q.12. Life cycle of Chytridiales.

Q.13. General characters of Xylariales.

Q.14. Fruiting bodies in Pezizales.

Q.15. General characters of Aphyllophorales.

Q.16. General features of Hypochytriales.

Q.17. General characters of Labyrinthulales.

Q.18. Polyplanetism.

Q.19. Morphology of fructification in Stemonitales.

Q.20. Life cycle of white rust of Crucifers.

Q.21. Occurrence and distribution of algae.

Q.22. Algae as a source of Food.

Q.23. Vegetative reproduction in algae with suitable diagrams.

Q.24. Sexual reproduction in algae with suitable diagrams.

Q.25. Explain the general characteristics of Cyanophyceae.

Q.26. Define the conjugation and explain their type with neat labelled diagram.

Q.27. Cultivation of algae.

Q.28. What are key characteristics of Sphagnales

Q.29 Explain external feature of gametophyte of funariales

Q.30. Explain reproduction in Anthocerotales

Q.31. Classification of Bryophytes

Q.32. Salient features of Andreaeales

Questions carrying 4 marks each.

Q.21. Plectenchyma.

Q.22. Lomasomes.

Q.23. Spitzenkorper.

Q.24. Karyochorisis.

Q.25. Mycorrhiza.

Q.26. Stroma.

Q.27. Bird Nest Fungi.

Q.28. Stink horn.

Q.29. Proliferation of Sporangium.

Q.30. Bothrasomes.

Q.31.Grex.

Q.32.Cruciform nuclear division.

Q.33. Capillitium.

Q.34. Plasmodiocarp.

Q.35. Aethalia.

Q.36. Alginate.

Q.37. Kelp.

Q.38. Structure of diatom.

Q.39. Describe the genus *Volvox*.

Q.40. Diatomite.

Q.41. Algae as source of fodder.

Q.42. Write a note on Buxbaumiales

Q.43. Explain reproduction in *Funaria.*

Q.44. Write a short note on spore germination in *Frullania*

Q.45. Explain origin of bryophytes from alga

Q.46. Bryophytes as reliable indicators of air pollution

Q.47. Economic importance of bryophytes