

## DEPARTMENT OF BOTANY

### QUESTION BANK

#### SEM – V PAPER – 6

#### Essay type Questions (10 Marks)

1. Give an account of the basic concepts of ecology?
2. Describe the role of Light as an ecological factor.
3. Describe the role of Temperature as an ecological factor.
4. Briefly discuss the ecological adaptations of Xerophytes.
5. Define the term 'Soil'. Discuss briefly the different components of soil.
6. Describe the effect of biotic factors on vegetation.
7. What is an ecosystem? Describe the different components of ecosystem.
8. What are ecological pyramids? Describe the types of ecological pyramids.
9. Give an account on energy flow in ecosystem.
10. Describe the Pond ecosystem.
11. Describe the Grass land ecosystem.
12. Describe the different methods employed for measuring the primary productivity of an ecosystem.
13. Define population. Discuss briefly the various characteristics of population.
14. Describe different characteristics shown by communities.
15. What are the different methods used in the study of plant communities.
16. What is Phytogeography? Write an essay about the principles of Phytogeography and types of Distribution.
17. Describe different Phytogeographic regions of India.
18. Describe different Phytogeographic regions of the world proposed by R.Good.
19. What is Endemism? Write in detail about Endemism.
20. Define the term Biodiversity? Explain the scope and importance of biodiversity.
21. Explain the values of Biodiversity.
22. Enumerate the levels of Biodiversity.
23. Define biodiversity hotspot and explain the hotspots of India.
24. Discuss the status of India as a mega diverse nation of biodiversity.
25. Explain the different methods of biodiversity conservation.
26. Write an essay on seed Banks.

#### Short Answer Questions (5 Marks)

1. Vernalisation.
2. Thermoperiodism.
3. Soil profile.
4. Pedogenesis.
5. Halophytes.
6. Mutualism.
7. Commensalism.
8. Amensalism.
9. Food chain.
10. Food web.
11. Eltonian pyramids.

12. Consumers.
13. Decomposers.
14. Zonation of lakes.
15. Primary productivity.
16. Secondary productivity.
17. P/R ratio.
18. Biogeochemical cycles
19. Carbon cycle.
20. Nitrogen cycle.
21. Phosphorous cycle.
22. Survivorship curves.
23. Age Pyramids.
24. Mortality and Natality.
25. Sigmoidal Growth Curve.
26. Ecotypes.
27. Ecads.
28. Ecotone.
29. Quadrats.
30. Importance Value Index.
31. Raunkiar's life-forms.
32. Biological spectrum.
33. Stratification.
34. Wides.
35. Gangetic plain.
36. Eastern Himalayas.
37. Indus plain.
38. Boreal kingdom.
39. Earth Summit.
40. Genetic diversity.
41. Species diversity.
42. Hot Spots.
43. Western Ghats.
44. Endemic species of India.
45. Ex-situ conservation.
46. In- situ conservation.
47. Biosphere reserves.
48. IUCN.
49. NBPGR.
50. WWF
51. UNEP
52. Seed Bank.
53. Gene Bank.