Hiralal Mazumdar Memorial College for Women, Dakshineswar

**Department of Botany,**

**Semester II, Botany Honours**

**CC – IV THEORY**

**QUESTION BANK**

1. **QUESTIONS FOR 1 MARK**
2. What do you mean by gametophyte and sporophyte?
3. What is prothallus?
4. Name two aquatic pteridophyte.
5. Name one xerophytic pteridophyte.
6. What environmental factor is essential for fertilization of pteridophyte?
7. Who discovered the plant Rhynia sp?
8. Name two fossil pteridophytes.
9. Name two species of Rhynia sp.
10. What is rhizome?
11. What kind of branching pattern found in Rhynia Sp?
12. What is rhizoid?
13. What do you mean by hemispherical out growth?
14. What do you mean by disintegrated sex organs?
15. Name the earliest land plant.
16. What do you mean by exarch and endarch type of xylem system?
17. Name two vegetative propagative organs found in pteridophyte.
18. What is sporangium or synangium?
19. What is ligule?
20. Name one heterosporus pteridophyte.
21. Name one homosporus pteridophyte.
22. What are trabeculae?
23. What is sporangiferous spike?
24. What is diarch?
25. What is protostele?
26. What is glossopodium?
27. What is tapetum?
28. Name a pteridophyte having leaf sheath.
29. What is carinal cavity?
30. What is vallecular cavity?
31. What is sunken stoma?
32. Define annulus.
33. Discuss the function of elaters.
34. What do you mean by incipient hetorispory?
35. Name the male and female sex organs of selaginella sp.
36. Define ramenta.
37. What is coenosorus?
38. What do you mean by circinate vernation?
39. Define sorus.
40. Write the function of annulus and stomium.
41. What is horse tail pteridophyte?
42. Name one pteridophyte which indicate the presence of gold.

**(B) QUESTIONS FOR 3 MARKS**

1. Write the general characteristic features of pteridophyte.
2. Write a short note on fossil plant cooksonia.
3. Describe the reproductive structure of Rhynia sp.
4. Write the primitive characters of Psilotum sp.
5. Describe the stem anatomy of Psilotum sp.
6. Write a short note on ligule.
7. Write about different modes of vegetative propagations found in Selaginella sp.
8. Write differences between homoeophyllum and heterophyllum genus of Selaginella sp.
9. Describe the external morphology of Equisetum sp.
10. Mention the xerophytic and hydrophytic characters of Equisetum sp.
11. Write a short note on incipient heterospory.
12. Differentiate indusium and false indusium.
13. Describe the morphology of leaflet of Pteris sp.
14. What is resting bud write the location and function of resting bud.
15. Distinguish between apogamy and apospory.
16. Describe the reproductive structure of Pteris sp.
17. Mention the causes of apogamy.
18. Write a short note on apospory.
19. Write the merits and demerits of Telome theory.
20. Discuss the importance of heterospory.
21. Explain the expansion and invation theory regarding the stellar evolution.
22. Discuss the ecological importance of pteridophyte.

**(C) QUESTIONS FOR 5 MARKES**

1. Write the classification of pteridophyte up to class (sporne , 1975)
2. Describe the anatomical characters of Rhynia sp with suitable diagram.
3. Describe the stem anatomy of Selaginella sp with suitable diagram.
4. Briefly describe the morphology of sporangium of Psilotum with suitable diagram.
5. Write the anatomical features of root and leaf of Selaginella sp with suitable diagram.
6. Explain the structural features found in V.S. of sporangioferus spike of Selaginella sp.
7. Write the stem anatomy of Equisetum sp with suitable diagram.
8. Write a short note on the structure of strobilus of Equisetum sp with suitable diagram.
9. Describe the reproductive structure of pteris with suitable diagram.
10. Explain how stele is evolved from primitive to advanced type with appropriate diagram.
11. Discuss the economic importance of pteridophyte.