

Roll No.                     

[Total No. of Pages : 2]

**SIIS 186 B-2K13**

**B.Sc. IIIrd Semester Degree Examination**

**Botany**

**(Diversity of Vascular plants)**

**Paper - 3.4**

**LIBRARY**  
**BARNATAK ARTS SCIENCE &**  
**COMMERCE COLLEGE**  
**B I D A R - 585 401**

Time : 3 Hours

Maximum Marks : 80

**Instructions to candidates:**

1. Answer all the Sections
2. Diagram will enhance the value of Answers

**Section - A**

**I Answer the following:**

**(15×1=15)**

1. What is the multiparous cyme?
2. What is Pseudo elaters?
3. What is Peterification?
4. What is Siphonostele?
5. Mention the function of Valemén tissue.
6. Define heterospory.
7. Why Equisetum, Commonly called as horse tail?
8. What is stipule? Name any two types.
9. Name the layers of pericarp.
10. What is winged pollen grains? Where it occur.
11. What is Pavement tissue
12. What is hypogynous flower?
13. What is syngenesious?
14. What are Respiratory roots?
15. What is hypanthodium?

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**(1)**

**[Contd....]**

**Section - B**

**II** Answer any **five** of the following:

**(5×5=25)**

16. What is phyllotaxy? Explain the types of phyllotaxy.
17. Describe the T.S. of Lycopodium stem.
18. Describe the T.S. of pinus needle with neat labelled diagram.
19. Define Aestivation? Explain any two types?
20. Explain briefly geological time scale.
21. Describe the T.S. of Marsilea petiole.
22. Describe the underground modifications of tap root for storage.

**Section - C**

**III** Answer any **four** of the following:

**(4×10=40)**

23. What is Racemose inflorescence? Explain different types of Racemose inflorescence?
  24. Describe V.S. of cycas Ovule?
  25. Describe different types of Dry dehiscent and dry indehiscent Fruits with examples?
  26. Describe aerial and sub-aerial modifications of stem
  27. Describe male and female cones of Gnetum
  28. With neat labelled diagram. Explain T.S. of selaginella stem.
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