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Register Number :

Date : 08.04.2019

**ST.JOSEPH’S COLLEGE (AUTONOMOUS) BENGALURU-27**

**M.Sc. BOTANY –I I SEMESTER**

**SEMESTER EXAMINATION –-APRIL 2019**

**Bo 8118: Pteridophytes and Gymnosperms**

**Time: 2½hrs. Max. Marks: 70**

**This question paper has ONE printed page and THREE parts Instructions: Draw diagrams and write examples wherever necessary**

**A. Explain any TEN of the following in one or two sentences: 10 x 2=20**

1. Cingularia

2. Gradate sorus

3. *Carnoconites*

4. Aril

5. Dictyostele

6. Pycnoxylic wood

7. *Williamsonia*

8. Velum

9. *Cordaites*

10. Sporocarp

11. Xylotomy

12. Elater in pteridophytes

**B. Write Critical notes on any FIVE of the following: 5 x 6=30**

13**.** Male fructifications of *Glossopteris*

14. Characteristic features of Ophioglossales

15. Origin of heterospory in pteridophytes

16. Angiospermic characters of Gnetales

17. Cones of *Sphenophyllum*

18. Economic importance of gymnosperms.

19. Salient features of Filicales

**C. Give a comprehensive account of any TWO of the following: 2 x10=20**

20. Telome theory

21. Polyembryony in gymnosperms

22. Detailed account of *Horneophyton* and comparative account of *Rhynia* with *Horneophyton*

**-BO.8118-A-19**