

ST. JOSEPH'S COLLEGE, AUTONOMOUS, BANGALORE-27
SEMESTER EXAMINATION–OCTOBER 2019
B.Sc., BOTANY-III Semester
BO-318 : Pteridophytes, Gymnosperms, Paleobotany

Time : 2 ½ hrs

Max. Marks : 70

This question paper has **ONE** printed page and **three** parts

Instruction- Draw diagrams and write examples wherever necessary

A) Explain any TEN the following in one or two sentences 10x2=20

1. Synangium
2. Fossilisation
3. Valicular Canal
4. Radiodating technique
5. Petrification
6. Pavement Tissue
7. Coenomegaspore
8. Rhizophore
9. Ramenta
10. Phyllotaxy in *Gnetum*
11. Dwarf Shoot
12. Ligule

B) Write critical notes on any FIVE of the following 6x5=30

13. L.S of female cone of *Pinus*
14. Differences between Pteridophytes and Gymnosperms
15. Types of fossiliferous rocks
16. Anatomy of *Marsilea* petiole
17. Salient features of Cycadales
18. Calamities and a note on its affinity with *Equisetum*
19. Pentoxylon

C) Give a comprehensive account on any TWO of the following 10x2 =20

20. Stellar evolution in Pteridophytes
21. Techniques of studying fossils
22. Secondary Growth in *Gnetum*

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