

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

**M.Sc. BOTANY - II SEMESTER**

**SEMESTER EXAMINATION: APRIL 2020**

**BO 8118 - Pteridophytes and Gymnosperms**

**Time- 2 ½ hrs**  **Max Marks-70**

**This paper contains ONE printed page and THREE parts**

**Draw diagrams and give examples wherever necessary**

**A. Define/Explain any TEN of the following 10x2=20**

1. Archegonium

2. Siphonostele

3. Heterospory

4. Prothallus

5. Synangium

6. Sorus

7. Diploxylic

8. Dwarf shoot

9. Binomial of two ‘living fossils’

10. Types of ovules in *Williamsonia*

11. Xylotomy

12. Polyembryony

**B. Write critical notes on any FIVE of the following 5x6=30**

13. State characteristic features of Pteridophytes (Any six)

14. Reproductive diversity in Marsileales

15. *Rhynia*

16. Stelar evolution in Pteridophytes

17. Gnetales

18. Pentoxylales

19. Economic importance of Gymnosperms

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

20. Reimer’ system of classification of Pteridophytes

21. Recent advances in the study of Gymnosperms

22. *Glossopteris*

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