Date:

Registration number:

**ST JOSEPH’S UNIVERSITY, BENGALURU -27**

**M.Sc. BOTANY – I SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2023**

**(Examination conducted in November /December 2023)**

**BO7323: PTERIDOPHYTES AND GYMNOSPERMS**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 50**

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

**\*Draw diagrams wherever necessary**

**PART-A**

**Answer any FIVE questions in one or two sentences 2X5=10**

1**.** Epiphytic Pteridophytes

2. *Cordaites*

3. Micropropagation in Pteridophytes

4. Polyembryony

5. Any two morphological characters of Taxales

6. Spike in *Ophioglossum*

7. Medicines from gymnosperms

**PART-B**

**Write short notes on any FIVE questions 6X 5=30**

8. Sporophyte structure of *Medullosa*

9. Applications of Pteridophytes

10. Evolutionary trends in Psilophytales

11. Anatomical characters of *Pteris* rhizome

12. Classification of gymnosperms according to Sporne (1974)

13. *Lepidocarpon*

14. Xylotomy of gymnosperms

**PART-C:**

**Explain any ONE question in detail 10X1=10**

15. Morphological characters of *Osmunda*

16. Reproduction in *Ephedra*