

Register Number:

Date: XX/07/2022

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

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

**SEMESTER EXAMINATION: APRIL 2022**

**(Examination conducted in July 2022)**

**BO 8121 - Pteridophytes and Gymnosperms**

**Time- 2 ½hrs**  **Max Marks-70**

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

**Draw diagrams and give examples wherever necessary**

**A. Answer any TEN of the following 10x2=20**

1. Antheridia in Pteridophytes

2*. Rhynia*

3. Enations

4. Cingularia

5. Synangium

6.Coenosorus

7.Pycnoxylic wood

8.Acicular leaf

9.Write the binomial of any two Gymnosperms‘living fossils’

10.*Glossopteris*

11.Xylotomy

12.Polyembryony

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

13.Economic importance of Pteridophytes (Any six)

14.Reproductive diversity in Salviniales

15. Salient features of *Lepidocarpon*

16.Diversity in morphology among *Lycopodium* spp.

17.Gingoales

18.Taxales

19. Any three affinities each of Gymnosperms with Pteridophytes and Angiosperms

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

20.Heterospory and seed habit

21.Diversity in morphology, anatomy and reproduction of Gnetales.

22.*Medullosa*and*Pentoxylon.*

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