

Date:

Registration number:

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

M.Sc. BOTANY - I I SEMESTER

SEMESTER EXAMINATION: APRIL 2022

(Examination conducted in July 2022)

**BO 8118 – Pteridophytes and Gymnosperms**

Time- 2 ½ hrs Max Marks-70 M

This question paper contains **one** printed pages and **Three** parts

\*Draw diagrams wherever necessary

**Part-A: Answer any TEN questions in one or two sentences 10X2= 20M**

1. Why are pteridophytes called vascular cryptogams ?
2. Any two general characters of gymnosperms
3. Rhyniophyta
4. Any two ornamental plants of Pteridophytes
5. Resin yielding plants in gymnosperms
6. Any two pteridophytes used in chemical compound production
7. How is xylotomy used for the identification of gymnosperms?
8. Heterospory
9. Ginkgoales
10. Any two anatomical characters of *Lycopodium*
11. Polyembryony
12. *Glossopteris*

**Part-B: Write short notes on any FIVE of the following questions` 5X6= 30M**

1. Stelar evolution
2. Classification of gymnosperm by according toTakhtajan
3. *Lepidostrobus*
4. Diversity in anatomy of Gnetales
5. Diversity in morphology of Ophioglossales
6. Diversity in reproduction of Salviniales
7. Comparative account of gymnosperms and angiosperms

**Part-C: Answer any TWO questions in detail 2X10= 20 M**

1. Describe the morphological and anatomical differences in Isoetales
2. Explain the systematic position and sporophyte structure of *Cycadeoidea*.
3. Explain the diversity in reproduction of Coniferales