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Date:

Registration number:

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

**B.Sc.–BOTANY, III SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2021**

(Examination conducted in January-March 2022)

**BO 318 – Pteridophytes Gymnosperms and Paleobotany**

**Time- 2 ½ hrs Max Marks-70**

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

**Part-A: Answer any 10 questions in one or two sentences**

 **10x2= 20 M**

1.Structure of Glossopodium

2.Species of *Rhynia* (any two)

3.Habits of *Gnetum ula* & *Gnetum gnemon*

4.Contributions of Birbal Sahni (any two)

5.Photosynthetic organs of *Equisetum*

6.Features of *Calamites*

7.Uses of Sago palm

8.Types of Sedimentary rocks (any two)

9. Significance of Carboniferous period

10.*Glossopteris*

11.Types of Radio-dating

12.Uses of Index fossils

**Part-B: Write short notes on any 5 questions**

 **5x6= 30 M**

 13. Types of Fossils

 14.Salient features of *Lepidodendron*

 15. Morphology of *Lycopodium*

 16. Male reproductive structures of *Gnetum*

 17. Morphology and anatomy of *Psilotum* synangium

 18. Outline of Smith’s classification of Pteridophytes

 19.Salient features of Cycadales.

**Part-C: Explain any 2 questions in detail**

 **2x10= 20 M**

 20 Morphology and anatomy of sporocarp in *Marsilea.*

 21 Reproductive structures of *Pinus*

 22 Heterospory and seed habit in pteridophytes