



Register Number: \

Date: 26/11/2020

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
B.Sc. Botany - III SEMESTER
SEMESTER EXAMINATION: NOVEMBER 2020
BO318 – Pteridophytes, Gymnosperms and Paleobotany

Time - 2 ½ hrs

Max. Marks - 70

This question paper contains ONE printed page and THREE parts

A. Answer any TEN questions.

10X2=20

1. Name the root genus of *Glossopteris*.
2. Define circinate vernation.
3. What is pycnoxylic wood?
4. Mention the three types of compression fossils.
5. Mention the type of rock in which fossils is formed.
6. Define cortical roots.
7. Name the organization that governs Geological Time scale.
8. Define sporophore.
9. What is a foliar spur?
10. Define orthotropous ovule.
11. Define glossopodium.
12. What are vallecular canals?

B. Write short notes any FIVE of the following

5X6=30

13. Economic importance of pteridophytes.
14. Techniques to study petrification fossils.
15. Prothallus of *Psilotum*.
16. Draw and label anatomical structure of *Pinus* leaf.
17. Rhizophore of *Selaginella* and different views on its morphological nature.
18. Internal structure of *Equisetum* stem.
19. General characteristics of Gnetales.

C. Give a detailed account of any TWO of the following

2X10=20

20. Explain the structures of different organ genera of *Pentoxylon*.
21. Heterospory and seed habit.
22. Explain the male and female cones of *Gnetum* with suitable diagrams.

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