



LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION

PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SECOND SEMESTER – APRIL 2025

PB 2504 – PLANT DIVERSITY - II (PTERI.,GYMNO.,& PALEOBOT.)



Date: 25-04-2025

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 PM

SECTION A

Answer ANY FOUR of the following, each within 500 words.

Draw diagrams / flowcharts wherever necessary.

4 x 10 = 40 Marks

1. List out the general characters of Pteridophytes with examples.
2. Describe the plant body of *Equisetum*.
3. Describe the internal structure of the sporocarp of *Marsilea*.
4. Summarize the salient features of Cycadales, Gnetales and Coniferales.
5. Describe the T.S. of *Cycas* leaflet.
6. Explain the structure of the female cone of *Pinus*.
7. Write a note on the dating of fossils.
8. Give an account on the geological time scale.

SECTION B

Answer ANY THREE of the following, each within 1000 words.

Draw diagrams / flowcharts wherever necessary.

3 x 20 = 60 Marks

9. Describe the evolution of the stellar system in Pteridophytes.
10. Give an account on the lifecycle of *Lycopodium*.
11. Discuss the economic importance of Gymnosperms.
12. Explain the lifecycle of *Gnetum*.
13. Write in detail on the different types of fossils.
14. Give an account on any 2 fossil plants.

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