

M.Sc.(Botany) (CBCS Pattern) Semester - I  
**PSCBOTT03 - Paper-IV : Gymnosperms & Paleobotany**

P. Pages : 1

Time : Three Hours



**GUG/S/23/11152**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw well labeled diagrams wherever necessary.

1. What are fossils? Describe process of fossilization & enlist different types for preservation of plant fossils. **16**

**OR**

Write note on;

- a) Applied aspects of Paleobotany. **8**  
b) Geological Time Scale. **8**

2. Give an account on distribution and classification of Gymnosperms. **16**

**OR**

Write note on;

- a) Fossil history of Cycadaceae. **8**  
b) Anatomical peculiarities in Heterangium and Medullosa. **8**

3. Give an account on morphology and systematic position of Cordiales and Cytoniales. **16**

**OR**

Write note on;

- a) General account of Pentoxylales. **8**  
b) General account on Gnetales. **8**

4. Give detail account on vegetative morphology, reproductive organs and embryo of Coniferales. **16**

**OR**

Write note on;

- a) Ginkgoales-morphology. **8**  
b) Reproductive organs in *Taxus*. **8**

5. Write on:

- a) Age determination of fossils. **4**  
b) Economic importance of Gymnosperms. **4**  
c) Glossopteris. **4**  
d) Trichopitys. **4**

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