

M.Sc.(Botany) (CBCS Pattern) Semester-IV
PSCBOTT15.3 - Paper-XV - Paleobotany-II

P. Pages : 1

Time : Three Hours



GUG/W/24/11360

Max. Marks : 80

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

1. What are Progymnosperms? Describe in detail the gymnosperm & early evolution of seed habit stages with the help of *Archeosperma*, *Elkinsia* & *Morentia*. **16**

OR

Write on:

- a) Fossil Cycads. **8**
b) *Cycadeoidea*. **8**

2. Describe the order Glospteridales with its phylogenetic consideration. **16**

OR

Write on:

- a) *Pentoxylon*. **8**
b) *Cordaite*s. **8**

3. Describe the formation of Deccan traps & Intertraps? Write about its age and floristic composition in relation to angiosperm. **16**

OR

Write on:

- a) Fossils Pteridohytes. **8**
b) Fossils Gymnosperms. **8**

4. Describe the important features of spores and pollen morphology and their role in exploration of coal and oil. **16**

OR

Write on:

- a) Stratigraphy and classification of Indian Gondwana land. **8**
b) Paleoecology and Paleogeography. **8**

5. Write short notes on:

- a) *Archaeopteris*. **4**
b) *Caytonia*. **4**
c) Paleoclimate and Paleogeography of Deccan Intertraps **4**
d) Index Fossil. **4**
