

2SBot-T1 - Botany-I (Pteridophyta, Palaeobotany and Gymnosperms) Paper- I

P. Pages : 2

Time : Three Hours



GUG/W/16/5566

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate your answers with suitable examples and draw well-labelled diagrams wherever necessary.

1. Write a note on life cycle of selaginella. 10

OR

Write notes on

a) Concept of heterospory. 5

b) Telome theory. 5

2. What is fossilization? Describe the theories of fossilization. 10

OR

Write notes on

a) Anatomy of cycas stem 5

b) Male and female cone in pinus. 5

3. Write short notes on

a) Proto stele. 2½

b) Cone of Equisetum. 2½

c) Compression. 2½

d) Economic importance of gymnosperm. 2½

OR

e) Amphiphloic siphonostele. 2½

f) Seed habit. 2½

g) Petrification. 2½

h) L.S. Ovule of Cycas. 2½

4. Write notes on :
- a) T.S. Rhizophore OF selaginella. 2½
 - b) Marsilea sporocarp T.S. 2½
 - c) L.S. Strobilous of cycadesidea (Diagram Only). 2½
 - d) Anatomy of cycas leaflet. 2½

OR

- e) Rhynia stem T.S. 2½
- f) T.S. Equisetum stem (Diagram only). 2½
- g) Mesozoic era. 2½
- h) T.L.S. Pinus stem. 2½

5. Write answers in two or three lines only (Diagrams are not necessary) **any ten.** **10**

- a) Glossopodium.
- b) Rhizoides.
- c) Pith.
- d) Sporangiphore.
- e) Megaspore.
- f) Vallecular canal.
- g) Coenozoic era.
- h) Impression.
- i) Jurassic period.
- j) Transfusion tissue.
- k) Resin canal.
- l) Coralloid roots.
