

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

P. Pages : 1

GUG/S/18/5566

Time : Three Hours



Max. Marks : 50

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

1. Describe heteromorphic alternation of generation in Selaginella. **10**

OR

Write notes on:

- a) Structure of Marsilea sporocarp. **5**
b) Structure of Equisetum strobilus. **5**

2. Describe different types of Fossils. **10**

OR

Write notes on:

- a) External morphology of Cycas. **5**
b) Secondary structure of Pinus stem. **5**

3. Write notes on:- **10**

- a) Protostele. b) Morphology of Equisetum stem.
c) Cenozoic era. d) Anatomy of Pinus needle (only diagram)

OR

- e) Characters of Psilophyta
f) Rhizome of Marsilea.
g) Replacement theory of fossilization.
h) Gymnosperm classification by sporne.

4. Write notes on:- **10**

- a) General characters of pteridophyta. b) Prothallus in equisetum.
c) Paleozoic era. d) Anatomy of Cycas leaflet.

OR

- e) Siphonostete. f) Telome concept.
g) Glossapteris. h) Female cone in Pinus.

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

- a) Rhizophore. b) Pith
c) Ligute d) Sporangiphore.
e) Indusium. f) Sponsphyll.
g) Cretaceous. h) Paleobotany.
i) Persistent leaf base. j) Spur.
k) Resin canal. l) Rachis.
