

SECTION - C (2 × 20 = 40)*Answer ALL questions.**Each answer should not exceed 1,200 words.**All questions carry equal marks.*

15. (a) Explain the development and structure of male and female gametophyte of araucaria with the help of diagrams.

(OR)

- (b) Describe the development of sporocarps of marsilea and salvinia.

16. (a) Write the geological time scale and types of fossils.

(OR)

- (b) Economic importance of gymnosperms.

Register Number :

Name of the Candidate :

5 7 1 5**M.Sc. DEGREE EXAMINATION, 2008**

(BOTANY)

(FIRST YEAR)

(PAPER - III)

**130. PTERIDODOLOGY, GYMNOSPERMS
AND PALEOBOTANY***(Revised Regulations)*

December]

[Time : 3 Hours

Maximum : 100 Marks

SECTION - A (8 × 3 = 24)*Answer ALL questions.**Each answer should not exceed 50 words.**All questions carry equal marks.*

1. Plectosteles.
2. Eusporangiate sorus.
3. Syngonium.

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4. Ovule of ephedra.
5. Transfusion tissue.
6. Corolloid root.
7. Pseudo fossils.
8. Compressions.

SECTION - B (6 × 6 = 36)

Answer ALL questions.

Each answer should not exceed 300 words.

All questions carry equal marks.

9. (a) Briefly describe the salient features of angiopteris.
(OR)
- (b) Describe the salient features of osmunda.
10. (a) Compare the microsporangium of podocarpus with that of cupressus.
(OR)
- (b) Female cones of coniferales - general account.

11. (a) Describe the salient features of pentoxylon and its affinities.
(OR)
- (b) Describe the salient features of cordaites and its affinities.
12. (a) Compare the ovule of ginkgo with ovule of cycas.
(OR)
- (b) Explain the anatomy of leaf of cycas.
13. (a) Explain the stem of medullosa.
(OR)
- (b) Explain the structure of seed of trignocarpus.
14. (a) Explain the stelar evolution.
(OR)
- (b) Explain the classification of pteridophytes by Reimer.

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