

(b) Write an account on the classification of pteridophytes.

16. (a) Describe the development of female gametophyte in living Gymnosperms.

(OR)

(b) Write an account on the economic importance of Gymnosperms.

Register Number :

Name of the Candidate :

1 7 1 5

M.Sc. DEGREE EXAMINATION, 2008

(BOTANY)

(FIRST YEAR)

(PAPER - III)

**130. PTERIDOLOGY, GYMNOSPERMS
AND PALEOBOTANY**

(Revised Regulations)

May]

[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. Ectophloic siphonostele.
2. VS cone of *Equisetum*.
3. Heterosporous pteridophytes.

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4. Ovulate strobilus of Ginkgo.
5. Male cone of *Taxus*.
6. Resins.
7. *Lagenostoma*.
8. *Cycadeoidei*.

SECTION – B (6 × 6 = 36)

Answer ALL questions.

Each answer should not exceed 300 words.

All questions carry equal marks.

9. (a) Describe the gametophytes in pteridophytes.
(OR)
- (b) Write an account on the cones of Ferns.
10. (a) Describe the sporocarp of *Marselia*.
(OR)
- (b) Write an account on the development of cone in *Gleichenia*.
11. (a) Describe the development of “Cone Domes” in cycadales.
(OR)

- (b) Describe the male cones of coniferales.
12. (a) How do you evaluate that *Ginkgo biloba* is a living fossil.
(OR)
- (b) Describe the female strobilus of Gnetum.
13. (a) Write an account on Calamitales.
(OR)

- (b) Describe the advanced characters of cycadeideales.
14. (a) Describe the characters of cordaitales.
(OR)
- (b) Describe the different types of fossilizations.

SECTION – C (2 × 20 = 40)

Answer ALL questions.

Each answer should not exceed 1,200 words.

All questions carry equal marks.

15. (a) Describe the evolution of stele in pteridophytes.
(OR)

Turn over