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 techniques of studying fossils.

(OR)

(b) Explain the stelar evolution in pteridophytes.

16. (a) Discuss the origin of pteridophytes.

(OR)

(b) Write an account of the economic importance of gymnosperms.

Register Number :

Name of the Candidate :

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M.Sc. DEGREE EXAMINATION, 2009

(BOTANY)

(FIRST YEAR)

(PAPER - III)

130. PTERIDOLOGY, GYMNOSPERMS AND PALEOBOTANY

December] [Time : 3 Hours

Maximum : 100 Marks

SECTION - A (8 × 3 = 24)

Answer ALL questions.
Each answer should not exceed FIFTY words.
All questions carry equal marks.

1. Amber.

2. Cupule.

3. Pavement tissue.

4. Sporocarp.

5. Cordites.

6. Dictyostele.

7. Aetolysis.

8. Massulae.

SECTION - B (6 ×6 = 36)

Answer ALL questions.
All questions carry equal marks.

9. (a) Explain the types of sorus in filicales.

(OR)

(b) Explain reproduction in Maratliales with suitable examples.

10. (a) Describe the reproduction of psilotum.

(OR)

(b) Describe the salient features of Marseliales.

11. (a) Compare the embryo of Ephedra with that of gnetum.

(OR)

(b) Explain classification of gymnoserms by sporue.

12. (a) Explain the anotomy of stem of pinus.

(OR)

(b) Explain the structure and development of female gametophyte in cycas.

13. (a) Describe the salient features of calamites.

(OR)

(b) Explain the structure of lepidocarpon.

14. (a) Explain the structure of mesoxylon.

(OR)

(b) Describe the salient features of glossopteris and its affinities.

Turn Over