

Q.P. Code – 50724

Second Year B.Sc. Degree Examination, OCTOBER/NOVEMBER 2016

(Directorate of Distance Education)

Botany

**(DSB 290) Paper II – GYMNOSPERMS, PALEOBOTANY, ANATOMY,
EMBRYOLOGY AND ECOLOGY**

Time : 3 Hours]

[Max. Marks : 75/85

Instructions to Candidates :

- 1) *Students who have attended 25 marks I-A Scheme will have to answer for total of 75 marks.*
- 2) *Students who have attended 15 marks I-A Scheme will have to answer for total of 85 marks.*
- 3) *One mark questions should be answered in first two pages of the answer book.*
- 4) *Draw neat labelled diagrams wherever necessary.*
- 5) *Question No. V is **compulsory** for 85-marks scheme.*

I. Simple Answer Questions :

10 × 1 = 10

Answer in a word or a phrase or a sentence :

1. Who discovered double fertilization?
2. What is Amber?
3. Name the Eucleate cell of plant.
4. Which plant shows circinnate veneration?
5. Which gymnosperm ovule not having Archegonium.
6. What are Amphicribal vascular bundle?
7. Define Porogamy.
8. What is Ecesis?
9. What is Chiropteriphily?
10. Mention the importance of Triple fusion.

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II. Short Answer Questions :

5 × 3 = 15

Answer any **FIVE** of the following :

11. Describe corolloid root T.S.
12. Explain Histogen Theory.
13. Mention the differences between the Dicot and Monocot root internal structure.
14. Discuss the causes of Deforestation.
15. What are Xerophyte? Mention anatomical and morphological adaptation.
16. Write a note on Egg apparatus.
17. Discuss the living mechanical tissue.

III. Medium Answer Questions :

5 × 6 = 30

Answer any **FIVE** of the following :

18. Discuss the vegetation of Karnataka.
19. Describe the structure of types of ovule.
20. Explain cucurbita stem T-S.
21. Describe the L.S. of Pinus female cone.
22. Write a note on light as a factor.
23. Describe the Stelar secondary growth in Dicot stem.

IV. Long Answer Questions :

2 × 10 = 20

Answer any **TWO** of the following :

24. Discuss the nature of Xylem and Phloem.
25. What is climax stage? Explain different stage to attain climax in Xerosere.
26. Compare the gymnosperms with pteridophytes and angiosperms.
27. Discuss the contrivances for cross pollination and mention advantages of cross pollination.

V. Compulsory Question for 85 marks scheme only :

1 × 10 = 10

Answer any **ONE** of the following :

28. Explain the wall layers of microsporangium.
29. Explain secondary growth in Dicot root.