



M 25117

Reg. No. :

Name :

II Semester M.A./M.Sc./M.Com. Degree (Reg./Sup./Imp.)

Examination, March 2014

BOTANY

Paper B.IV : Pteridology and Gymnosperms

Time : 3 Hours

Max. Marks : 70

I. Answer **any two** of the following :

(2×10=20)

- 1) Give an account of the morphological and anatomical features of Psilotales.
- 2) Write on the origin and evolution of Pteridophytes.
- 3) Give an account of the life cycle of Welwitschia.
- 4) Explain the contribution by Indian Botanists to Indian Gymnosperm studies.

II. Answer **any one** of the following :

(1×10=10)

- 5) Give an account of the rare, endangered and endemic pteridophytes of South India.
- 6) Write on the economic importance of Gymnosperms.

III. Answer **any three** of the following :

(3×5=15)

- 7) Heterospory
- 8) Sori-types
- 9) Equisetum – stem
- 10) Cycas – microsporophyll
- 11) Advanced features of Gnetum.

IV. Answer **any five** of the following :

(5×3=15)

- 12) Plectostele
- 13) Epiphytic pteridophytes

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- 14) Vessels in pteridophytes
- 15) Impression
- 16) Pinus – Pollen grain
- 17) Suspensors
- 18) Heterangium
- 19) Corolloid root.

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Paper B.I.V : Pteridology and Gymnosperms

Time : 3 Hours

V. Answer **any five** of the following :

any two of the following : (5×2=10)

- 20) Transfusion tissue
- 21) Synangium
- 22) Sunken Stomata
- 23) Polyembryony
- 24) Tapetum
- 25) Secondary growth
- 26) Polystelic condition
- 27) Protostele.

1) Give an account of the morphological and anatomical features of the vascular tissue in Pinus.
2) Write on the origin and evolution of Pteridophytes.
3) Give an account of the life cycle of *Wolffia*.
4) Explain the contribution by Indian Botanists to Indian Gymnosperms.
ii. Answer any one of the following :
5) Give an account of the rare, endangered and endemic plants of South India.
6) Write on the economic importance of Gymnosperms.

(3×2=12)

iii. Answer any three of the following :

- 7) Heterostyly
- 8) Soil-types
- 9) Equisetum – stem
- 10) Ovary – microsporophyll
- 11) Advanced features of Gnetum

(5×3=15)

iv. Answer any five of the following :

- 12) Plectostele
- 13) Epiphytic pteridophytes

P.T.O.