



UN – 558

III Semester B.Sc. Examination, November/December 2015  
(NS) (2012-13 and Onwards)

**BOTANY – III**

**Pteridophytes, Paleobotany, Environmental Biology and Phytogeography**

Time : 3 Hours

Max. Marks : 70

- Instructions :** 1) Answer *all* Parts.  
2) Draw diagram *wherever* necessary.

PART – A

A. Answer any **seven** of the following :

(7×2=14)

- 1) Who discovered Rhynia ?
- 2) Neat labelled diagram of T.S. of synangium of prilotum.
- 3) What is heterospory ?
- 4) Describe elaters of equisetum.
- 5) What is a seed bank and its functions ?
- 6) Mention any two methods of soil conservation.
- 7) What is velamen tissues ?
- 8) What is red data book ?
- 9) What is sporocarp ? Give an example.

PART – B

B. Describe any **six** of the following :

(6×4=24)

- 10) Strobilus of selaginella.
- 11) T.S. of rhizome of Marsilea.
- 12) Flower of cycadaidea.
- 13) Contribution of Prof. Birbal Sahani to paleobotany.

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- 14) Role of man as biotic factor.
- 15) Social forestry.
- 16) Biotic components of grassland ecosystem.
- 17) National parks.

## PART - C

C. Give a detailed account of any four of the following :

(4×8=32)

- 18) Describe the VTS and HLS of sporocarp of Marsilea.
  - 19) Explain plant succession on a barren rock.
  - 20) Give an account of different types of fossilization.
  - 21) Describe the vegetation of Karnataka.
  - 22) *Stelar* evolution in pteridophytes.
  - 23) Brief account of continental drift.
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