

III Semester B.Sc. Examination, November/December 2014
(Semester Scheme) (OS)
(Prior to 2012-13)
BOTANY (Paper – III)
Pteridophytes, Palaeobotany, Environmental Biology and
Phytogeography

Time : 3 Hours

Max. Marks : 60

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

PART – A

A. Answer any six (06) of the following.

(6×2=12)

BMSCW

- 1) Define vivipary.
- 2) What is green house effect ?
- 3) What is Seed Bank ? Mention their importance.
- 4) Name the two species of Rhynia.
- 5) What is amphiploic siphonostele ?
- 6) What is social forestry ?
- 7) What is parasitic plants ? Give an example.
- 8) Define petrification.

PART – B

B. Answer any six (06) of the following.

(6×4=24)

- 9) T.S. of osmunda rhizome.
- 10) Significance of forest conservation.
- 11) Give an account of geological time scale.
- 12) What is soil profile ? Explain the different horizons of the soil profile.



- 13) Discuss the anatomical adaptations in xerophytes.
- 14) T.S. of Psilotum stem.
- 15) Biotic components of marine ecosystem.
- 16) Scope of environmental biology.

PART - C

C. Answer **any three** of the following.

(3×8=24)

- 17) Describe the phytogeographic regions of India.
 - 18) Describe stealar evolution in Pteridophytes.
 - 19) Discuss the morphological and anatomical adaptations in hydrophytes.
 - 20) Explain the internal structure of selaginilla stem with a neat labelled diagram.
 - 21) What is ecological succession ? Describe sequential stages in hydrosere.
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