



UN – 557

III Semester B.Sc. Examination, November/December 2015
(CBCS) (Fresh) (2015-16 & Onwards)
BOTANY (Paper – III)
Pteridophytes, Paleobotany, Environmental Biology and
Phytogeography

Time : 3 Hours

Max. Marks : 70

Instructions : 1) Answer *all* questions.
2) Draw diagrams and write examples *wherever* necessary.

A. Explain/define **any ten** of the following in **two** or **three** sentences. (10×2 = 20)

- 1) What is protostele ? Give an example.
- 2) Leaf of selaginella.
- 3) Synangium of psilotum.
- 4) Mention any two types of fossils.
- 5) Define putrefaction.
- 6) Who is the father of Indian paleobotany mention the institute founded by him ?
- 7) What is soil profile ? Mention the different layers of soil profile ?
- 8) Mention any two adaptations of epiphytes.
- 9) Mention the importance of social forestry.
- 10) Role of seed Bank.
- 11) Mention any two methods of soil conservation.
- 12) Bioreserves.

P.T.O.



B. Write a critical note on **any four** of the following.

(4×5 = 20)

- 13) HLS of Marselia sporocarp.
- 14) T.S. of Lycopodium cernuum stem.
- 15) Soil microorganisms.
- 16) Biotic components of marine ecosystem.
- 17) Afforestation
- 18) Water shed management.

C. Give a comprehensive account of **any three** of the following.

(3×10 =30)

- 19) Stellar evolution
 - 20) Process of fossilization
 - 21) a) Rhynia
b) Stem of pentaxylon
 - 22) Soil conservation methods
 - 23) Phytogeographical regions of India.
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