

III Semester B.Sc. Examination, November/December 2016
(CBCS)
(2015 – 16 and Onwards) (F + R)
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.

PART – A

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

- 1) Give four important characteristic of pteridophyte.
- 2) T.S. of synangium.
- 3) What is Heterospory ? Mention its significance.
- 4) What are Haustoria ?
- 5) Mention any two methods of soil conservation.
- 6) What is gene bank ?
- 7) What are xerophytes ? Give one example.
- 8) Define Impression.
- 9) Who is father of paleobotany ?
- 10) Differentiate Helophytes and Seiophytes.
- 11) Mention two national parks of India.
- 12) Define Ecosystem.



PART – B

B. Write a critical notes on **any four** of the following : **(4x5=20)**

- 13) L. S. of Strobilus of Lycopodium.
- 14) T. S. of stem of Selaginella.
- 15) Grass land Ecosystem.
- 16) Rhynia.
- 17) Rain water harvesting.
- 18) Gametophyte of Psilotum.

PART – C

C. Give a comprehensive account of **any three** of the following : **(3x10=30)**

- 19) Explain VTS of sporocarp of Marsilea.
 - 20) Vegetational type of Karnataka.
 - 21) Explain Hydrosere.
 - 22) Stelar evolution in pteridophytes.
 - 23) Explain the ecological adaptation with reference to epiphytes and halophytes.
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