

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.

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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.