



SS - 362



III Semester B.Sc. Examination, Nov./Dec. 2018
(CBCS) (F + R) (2015-16 and Onwards)

BOTANY – III

Pteridophytes, Paleobotany, Environmental Biology and Phytogeography

Time : 3 Hours

Max. Marks : 70

- Instructions :** 1) Answer **all** Parts.
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) What are Xerophytes ?
- 2) Differentiate between In situ and Ex situ conservation.
- 3) What is Afforestation ?
- 4) Define Ecosystem.
- 5) Draw a neat labelled diagram of T.S. of synangium of Psilotum.
- 6) Mention any two types of Protostele.
- 7) Define Petrification.
- 8) Mention any two Bioreserves.
- 9) What is soil Profile ?
- 10) Define Synecology.
- 11) What is Rhizophore ?
- 12) Mention two advantages of seed bank.

PART – B

B. Write critical notes on **any four** of the following :

(4×5=20)

- 13) T.S. of stem of Lycopodium clavatum.
- 14) Heterosporous and seed habit.
- 15) Process of fossilization.

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- 16) T. S. of Rhizome of selaginella.
- 17) Soil reclamation.
- 18) Conservation of forest.

PART – C

C. Give a comprehensive account of **any three** of the following : (3×10=30)

- 19) H.L.S. and V.T.S. of sporocarp of Marsilea.
 - 20) Describe the Ecological adaptations in Epiphytes and Parasites.
 - 21) Give an account on Phytogeographical regions of India.
 - 22) Describe the various stages in Hydrosere.
 - 23) Explain :
 - a) Rhynia
 - b) Pentaxylon.
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