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 Petrifaction.
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) Heterospory and seed habit.
15) Process of fossilization.

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.