

FACULTY OF SCIENCE
B.Sc. II-Semester (CBCS) Examination, May / June 2018

Subject : Botany

Paper – II : Bryophytes, Pteridophytes, Gymnosperms and Paleobotany

Time : 3 Hours

Max. Marks: 80

PART – A (5 x 4 = 20 Marks)
(Short Type Answer)

Note : Answer any FIVE of the following questions.

- 1 ✓ Marchantia-thalium
2 ✓ Anthoceros-antheridia
3 ✓ Rhynia
4 ✓ Stele in Lycopodium
5 ✓ Pinus-R.L.S. of wood
6 ✓ Gnetum-ovule
7 ✓ Williamsoniella
8 ✓ Geologic Time Scale

PART – B (4 x 15 = 60 Marks)
(Essay Type Answer)

Note: Answer all the questions.

- 9 (a) Describe the structure of capsule in *Polytrichum*.
OR
(b) Write an essay on evolution of sporophyte in Bryophytes.
- 10 (a) Describe the classification of Pteridophytes proposed by Sporne.
OR
(b) Describe the structure of sporocarp in *Marsilea*.
- 11 (a) Explain the internal structure of Pinus needle with the help of a neat labeled diagram.
OR
(b) Give an account on the economic importance of Gymnosperms.
- 12 (a) Give a general account of Bennettitales.
OR
(b) What is a fossil? Describe the various types of fossils and methods of fossilization.
