

2022
M.Sc.
First Semester
CORE – 03
BOTANY
Course Code: MBOC 1.31
(Gymnosperms & Palaeobotany)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer the following question.

1. (a) Give the various system of classification of gymnosperms. 14
OR
(b) Enumerate the economic importance of gymnosperms. 14
2. Write notes on the following: 7×2=14
(a) Female cone of *Pinus* (b) Male strobilus of *Ginko*
3. (a) Discuss on the climatic condition, origin and the types of plant in different periods of Palaeozoic era. 14
OR
(b) Write short notes on the following: 7×2=14
(i) Petrification (ii) Pseudo fossil
4. (a) Discuss on the salient features and affinities of progymnosperms. 4+10=14
OR
(b) Discuss on the salient features and affinities of Pteridospermales. 4+10=14
5. (a) Explain the characteristic features of *Rhynia* with suitable diagram. 5+5+4=14
OR
(b) Define palaeobotany. Discuss on the application of palaeobotany in understanding palaeoclimate and origin and evolution of plants. 2+6+6=14