

PG CBCS
M.Sc. Semester-I Examination, 2021
BOTANY
 PAPER: BOT 102
(PHYCOLOGY & BRYOLOGY)

Full Marks: 40**Time: 2 Hours**

Write the answer for each unit in separate sheet

BOT 102.1
PHYCOLOGY

Answer any TWO questions from the following:**2X10 =20**

1. Enumerate the salient features of Cyanobacteria. How endosymbiosis involved in origin of chloroplast. 4+6
2. Describe the range of thallus structures found in algae with suitable examples. 10
3. Write down the general characters of Rhodophyta. Discuss about the evolutionary tendency and phylogeny among the different members of Rhodophyta. What is Floridian starch. 3+6+1
4. Give a brief account of the streptophytic algae. Briefly comment on the role of genetics in the evolution of this group of algae. 5+5
5. Discuss the reclamation of soil by algae. What is SCP? Mention its advantages and disadvantages. 5+2+3

BOT 102.2
BRYOLOGY

Answer any TWO questions from the following:**2X10 =20**

1. Write down the affinities and systematic position of Calobryales and Sphagnales. 5+5
2. Write the name of four chemical compounds found in bryophytes. Discuss their taxonomic significance. Briefly discuss with example the role of bryophytes in plant succession. 2+4+4
3. What is meant by cytogenetics of bryophytes? Write the chromosomal diversity in bryophytes and their application in taxonomy with example. 2+2+6
4. What is Sphaeroriccia? Write four salient features of Marchantiophyta. Give an account on the sporophytic structures of Anthoceroophyta. 2+4+4
5. What are indicators? Why Bryophytes are considered as excellent indicators of pollutions? Mention the factors responsible for affecting the degree of damage from any one pollutant. 2+4+4
