

PG CBCS
M.Sc. Semester-I Examination, 2021
BOTANY
PAPER: BOT 195
(PRACTICAL)

Full Marks: 50**Time: 3 Hours**

Write the answer for each unit in separate sheet

BOT 195.1
MICROBIOLOGY

A. Answer any ONE question of the following: 1X15=15

1. Write down the principle, requirements, and procedure of negative staining. 15
2. Discuss the principle, requirements, and procedure of Gram staining. 15
3. Write down the principle, requirements, and procedure of the experiment on bioassay of antibiotics. 15

B. Answer any ONE question from the following: 1X10=10

1. Write brief notes on autoclave and incubator. 10
2. Write down the different inoculation and plating techniques used in microbiological laboratory. 10

BOT 195.2
PHYCOLOGY AND BRYOLOGY

A. Answer any ONE question from the following. 15 ×1= 15

1. Draw and describe the mature sporophyte structure structure of *Funaria* sp. Write the systematic position of *Funaria* sp. 10+5
2. Draw and describe the thallus organization of the class Xanthophyceae. What are the identifying features of the class chlorophyceae? Write the identifying character of phaeophyceae? 4+6+5
3. Compare the thallus organization, reserve food material and pigments content of xanthophyceae and pheophyceae. Illustrate carospores? 5+5+5

B. Answer any ONE question from the following 10 ×1= 10

1. Draw and describe the vegetative and reproductive structure of *Riccia* sp. 4+6
2. Draw and describe the reproductive structures of *Ectocarpus* sp. 4+6