

PG CBCS
M.Sc. Semester-III Examination, 2020
BOTANY
PAPER: BOT 395
(PRACTICAL)

Full Marks: 50**Time: 4 Hours**

Write the answer for each unit in separate sheet

BOT 395.1

PLANT PHYSIOLOGY, BIOCHEMISTRY & MOLECULAR BIOLOGY

1. What is tetrazolium test of seed viability? Write the full name of TTC. Describe different steps to perform the tetrazolium test? 2+1+7
2. What is isotonic solution? How will you determine isotonic solution and osmotic pressure of a cell sap? 2+5
3. Write the procedure of extraction of chlorophyll from plant leave and comment on comparative levels of chlorophyll in different chronology ages. 6+2

BOT 395.2

CELL BIOLOGY, GENETICS AND BIOTECHNOLOGY

1. Write the identifying characters of different stages of meiosis I cell division. 8
2. Write a short note on Gel electrophoresis. 7
3. i. What is karyotype?
ii. Write the basic methods of karyotype of a mitotic metaphase chromosome. 2+8
