

Practical Examination

BOTANY (M)

PAPER: 6.5

2021

(Molecular Biology, Biotechnology, Bioinformatics and Computer Application)

Full marks-75

Time- Four hours

The figures in the margin indicate full marks for the questions.

1. Write the principle of paper chromatography technique. How to calculate the R_f value of a sample? Write the requisites for separation of amino acid by paper chromatography method. Name the reagent which is used to visualize amino acids separated by paper chromatography. Mention the precautions. 5+2+2+5=14
2. What is tissue culture? How do you inoculate explant in MS medium? Write the precaution measures to be taken in the process. 2+ 4+4=10
3. Suppose you are asked to download any 5 nucleotide sequences in FASTA format from a website. Write the full name of the website. Write the steps to download the sequences in FASTA format. To align these downloaded sequences what will you do? Write briefly about the process. 2+4+4=10
4. What is a transgenic plant? Briefly write about making a transgenic plant. 8
5. Identify the following: 2X4=8



Specimen: A



Specimen: B



Specimen: C



Specimen: D

6. Viva voce 10

7. Internal assessment 15

Note:

1. Upload your answer script within one hour of the completion of examination to jncollegebotany@gmail.com.
2. Submit the hard copy of answer script to the department on 25-08021.