

2022

M.Sc.

4th Semester Examination

BOTANY

PAPER—495D

(Practical)

Full Marks : 50

Time : 4 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer all questions.

Special Paper 495D : Microbiology

Answer the following questions (principle, requisition, result and conclusion to be written in the answer script) :

1. Find out fermentative ability of supplied bacteria (S) in the supplied sugar samples (A, B and C).

(Turn Over)

Or

Determine starch hydrolyzing ability of the supplied bacterial strain (P). 8

2. Find out number of bacteria present in supplied sample (Q) through spread plate method.

Or

Determine sensitivity of the supplied bacteria (M) against supplied antibiotic (X) through agar cup method. 10

3. Comment on the potability of supplied water sample (W) through MPN test. 10
4. Estimate amount of protein present in supplied sample (R) through Lowry method. Standard curve to be prepared with known protein sample. 6
5. Prepare a phylogenetic tree using BLAST through alignment of supplied genomic sequence (N). 6
6. Laboratory note book. 3
7. Report of field field visit. 2
8. Viva voce. 5