

PG
M.Sc. Semester-IV Examination, 2026
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 494B (PRACTICAL)
(MOLECULAR MICROBIOLOGY)

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

-
- | | |
|---|----|
| 3. Describe the preparation of competent cells and the transformation process in bacteria- [Principle (5), Procedure (10), Application (5)]. | 20 |
| 4. Perform construction of a phylogenetic tree using 16S rRNA gene sequences using Neighbor-Joining method. [Principle (3), Procedure (5), Work (5), Interpretation (2)]. | 15 |
| 3. Laboratory notebook. | 05 |
| 4. Viva-voce. | 10 |

<<<◇>>>