

**M. Sc. 2nd Semester Examination, 2025**

**MICROBIOLOGY**

*( Microbial Genetics )*

*( Practical )*

**PAPER — MCB-211**

*Full Marks : 25*

*Time : 8 hours*

**Answer all questions**

*The figures in the right hand margin indicate marks*

1. Isolate plasmid DNA from given bacterial culture and confirm the isolation through agarose gel electrophoresis. 10

[Procedure - 3, Work-4, Result & Inference - 3]

*( Turn Over )*

2. Determine the  $\beta$ -galactosidase production ability of given bacterial culture. 5  
[Work – 3, Result and Conclusion – 2]
3. Laboratory Note Book 2
4. Viva-voce 3
5. Internal Assessment. 5