

**M.Sc. 2nd Semester Examination, 2023**

**MICROBIOLOGY**

[ Practical ]

**PAPER – MCB-295.1**

*Full Marks : 25*

*Time : 2 hours*

*The figures in the right hand margin indicate marks*

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

- 1. Present and discuss your topic of group project**
- |                           |   |
|---------------------------|---|
| (a) Submission (2 copies) | 7 |
| (b) Discussion            | 7 |
| (c) Viva voce             | 6 |
| (d) Internal Assessment   | 5 |
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**M.Sc. 2nd Semester Examination, 2023**

**MICROBIOLOGY**

*(Visit to Institute and Preparation of Report)*

**[ Practical ]**

**PAPER -- MCB-296.1**

*Full Marks : 25*

*Time : 2 hours*

*The figures in the right hand margin indicate marks*

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

- 1. Submit a report on your institute visit (2 copies). 10**
  - 2. Viva-voce. 10**
  - 3. Internal assessment. 5**
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**M.Sc. 2nd Semester Examination, 2023**

**MICROBIOLOGY**

*(Microbial Genetics)*

**[ Practical ]**

**PAPER – MCB-296.2**

*Full Marks : 25*

*Time : 6 hours*

*The figures in the right hand margin indicate marks*

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

1. Isolate the plasmid / genomic DNA from the supplied bacterial specimen and run on agarose gel.  
[Principle-2, Work-3, Result-2, Comment-1] 8
2. Isolate UV-induced mutant bacteria from the given bacterial culture.

*( Turn Over )*

*Or*

Determine whether or not the given sugar samples (S1 and S2) are capable to induce beta-galactosidase production by the given bacterial culture.

[Principle-2, Work-3, Result with Comment-2] 7

3. Laboratory note book. 2
4. Viva-voce. 3
5. Internal assessment. 5

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