

**M.Sc. 1st Semester Examination, 2023**

**MICROBIOLOGY**

*( Enumeration & Identification of Microbes )*

*( Practical )*

**PAPER – MCB-195.1**

*Full Marks : 25*

*Time : 6 hours*

**Answer all questions**

*The figures in the right hand margin indicate marks*

- 1. Enumerate the aerobic bacterial load in the supplied soil sample.**

**[ Principle-3; Working-3; Calculation and Result-3]**

**9**

2. Perform the indole production test of the supplied bacteria. 6

*Or*

Perform the citrate utilization test of the supplied bacteria.

[Principle-2; Working-2; Result-2]

3. Laboratory note book 2
4. Viva Voce 3
5. Internal Assessment 5
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**M.Sc. 1st Semester Examination, 2023**

**MICROBIOLOGY**

*( Microbial Growth and Preservation )*

*( Practical )*

**PAPER – MCB-195.2**

*Full Marks : 25*

*Time : 6 hours*

**Answer all questions**

*The figures in the right hand margin indicate marks*

1. Evaluate the effectiveness of the supplied solution (A/B) as skin disinfectant.

[ Principle-2; Working-3; Result-2]

7

2. Determine the effect of three different pH (5, 7, 9) on the growth of supplied bacterial sample by turbidometric method. 8

*Or*

Determine the effect of three salt concentrations (1%, 2%, 3%) on the growth of supplied bacterial sample by turbidometric method. [Principle-2; Working-3; Result-3]

3. Laboratory note book 2
4. Viva Voce 3
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