

**M.Sc. 3rd Semester Examination, 2023**

**MICROBIOLOGY**

( Practical )

PAPER – 395

Answer all questions

*The figures in the right hand margin indicate marks  
Candidates are required to give their answers in  
their own words as far as practicable*

**PAPER – MCB-395.1**

( *Dignostic tests* )

*Full Marks : 25*

*Time : 4 hours*

1. Identify any WBC (Monocyte/Eosinophil/  
3-lobed neutrophil/ large lymphocyte) by  
using Leishman stain.

[Proper identification : 5, Draw & labeling : 2] 7

2. Determine the differential count of WBC.

*Or*

Estimate the quantity of sugar in the supplied blood sample

[Principle : 2, Result : 5, Interpretation : 1] 8

3. Laboratory note book 2
4. Viva-Voce 3
5. Internal Assessment 5

**M.Sc. 3rd Semester Examination, 2023**

**MICROBIOLOGY**

*( Diagnostic Microbiology )*

*( Practical )*

PAPER – 395.2

*Full Marks : 25*

*Time : 10 hours*

Answer **all** questions

*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. Enumerate the bacterial load in the supplied urine sample

[Principle : 3, Performance : 4, Result and comment : 3]

10

*Or*

Determine the antibiotic sensitivity of the given bacteria against the supplied antibiotics

[Principle : 3, Performance : 4, Result and comment : 3] 10

2. Perform the indole production/citrate utilization test of the given bacteria

[Performance : 3, Result and comment : 2] 5

3. Laboratory note book 2

4. Viva-Voce 3

5. Internal Assessment 5