

**2015**

**M.Sc.**

**3rd Semester Examination**

**MICROBIOLOGY**

**PAPER—MCB-305**

**(PRACTICAL)**

*Full Marks : 50*

*Time : 10 Hours*

*The figures in the right-hand margin indicate full marks.*

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

**Group—A**

*Answer all questions.*

1. Find out the monocyte from the stained blood film. 5  
*(Work-4, Comment-1)*
2. Show the agglutination zone by Ouchterlony's double diffusion technique using supplied antigen and antibody.

*Or*

Determine the quantity of sugar in the supplied blood sample. 11

*(Principle-4, Work-5, Result-2)*

*(Turn Over)*

- |                          |   |
|--------------------------|---|
| 3. Laboratory Note Book. | 2 |
| 4. Viva-voce.            | 2 |
| 5. Internal assessment.  | 5 |

### Group—B

Answer *all* questions.

1. Enumerate the bacterial load in the supplied urine sample. Find out the sensitivity of those bacteria against the supplied antibiotics. 14

( Procedure-2+2, Result-4+4, Comment-1+1 )

Or

Evaluate the sugar fermentation efficiency of the given bacteria against the supplied sugar. Find out the catalase and citrate utilization efficiency of the supplied bacteria.

14

( Procedure-2+2, Result-4+4, Comment-1+1 )

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|--------------------------|---|
| 2. Viva-voce.            | 3 |
| 3. Laboratory Note Book. | 3 |
| 4. Internal assessment.  | 5 |