

**2010**

**M.Sc.**

**3rd Semester Examination**

**MICROBIOLOGY**

**PAPER—XVII**

**(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 three lobed neutrophil 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*

Estimate the quantity of IgE of the supplied serum by ELISA method. 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.

6. Enumerate the quantity of *E.coli* present in the supplied urine sample. Find out the sensitivity of those bacteria against the supplied antibiotics. 7+7

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

Or

Isolate the fungal pathogen from the swab taken from diseased person. Identify the genus with appropriate characters and diagrams. 2+6+6

- |                          |   |
|--------------------------|---|
| 7. Viva-voce.            | 3 |
| 8. Laboratory Note Book. | 3 |
| 9. Internal assessment.  | 5 |