

**2018**

**M.Sc. 4th Semester Examination**

**MICROBIOLOGY**

**PAPER—MCB-403A**

**Subject Code—31**

**(Practical)**

*Full Marks : 25*

*Time : 5 Hours*

*The figures in the margin indicate full marks.*

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

**Group-A**

1. Perform the Multiple tube fermentation test of the supplied water sample (A) and determine the most probable number. 10

*Or*

Perform the indole test and citrate utilization test of the supplied bacterial culture (B).

*(Work - 4 ; Result - 4 ; Comment - 2)*

2. Perform the phosphatase test of the supplied milk (C) sample. 6  
*(Work - 3 ; Result and Comment - 3)*
3. Viva-voce. 4
4. Laboratory note book. 2
5. Internal assessment. 3