

NEW
Part-III 3-Tier
2015
MICROBIOLOGY
(Honours)
PAPER—VII
(PRACTICAL)

Full Marks : 100

Time : 6 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.

Answer all questions.

1. Make a film of human blood (a) and focus a 3-lobed neutrophil after suitable staining. 8
*[Preparation and staining of blood film—2+3;
Focussing of neutrophil—3]*

2. Quantify the *Escherichia coli* present in supplied urine sample (b). Comment on your observation. 20
[Procedure—8; Work—10; Comment—2]

(Turn Over)

3. Determine the quantities of the total number of lactic acid bacteria and phosphatase activity in the supplied milk sample. Comment on your observation. 20
[Procedure—3+3; Work assessment—2+2; Result—3+3; Comment—2+2]
4. Determine the total count of RBC present in your blood. Interpret your observation. 12
[Principle of method—3; Spot evaluation—4; Result—3; Interpretation—2]
5. Give a brief lecture on your group project. 20
[(Submission and presentation—5; Scientific content—5) = 10; Discussion—10]
6. Viva-voce. 10
7. Laboratory Note Book. 10
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