

2014

MICROBIOLOGY — HONOURS — PRACTICAL

Fourth Paper

(Group – B)

Full Marks – 50

The figures in the margin indicate full marks

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

1. Answer *any one* question :
 - (i) Evaluate the percentage of living cells in a supplied culture :
 - (a) Principle 2
 - (b) Procedure 4
 - (c) Result 4
 - (ii) Determine the generation time of the given microbial sample :
 - (a) Principle 2
 - (b) Procedure 4
 - (c) Result 4
2. Answer *any one* question :
 - (i) Determine the concentration of the supplied antibiotic solution by paper-disc method :
 - (a) Principle 3
 - (b) Procedure 6
 - (c) Result 6
 - (ii) Determine the MIC of the given antibiotic solution by serial dilution method using the supplied bacterial sample :
 - (a) Principle 3
 - (b) Procedure 6
 - (c) Result 6

[Turn Over]

3. Answer **any one** question :

(i) Determine the quality of 3 different supplied milk samples using the methylene blue reduction test :

- (a) Principle 2
- (b) Procedure 4
- (c) Interpretation 4

(ii) Perform the following tests on the given bacterial sample :

- (I) Indole test
- (II) Citrate test
 - (a) Principle 2
 - (b) Procedure 4
 - (c) Results 4

4. Viva voce. 10

5. Laboratory Note Book. 5