

2009

M.Sc.

1st Semester Examination

MICROBIOLOGY

PAPER—V

(PRACTICAL)

Full Marks : 40

Time : 8 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

[Marks : 20]

(4 Hours)

Answer all questions.

- 1. Isolate and enumerate the number of bacteria / fungi present in the supplied soil sample. 10**

(Procedure - 3, Work - 3, Result - 3, Comment - 1)

- 2. Draw, label and describe the supplied specimen A/B. Identify the genus with reasons. 2+2+3+3**

(Turn Over)

Group—B

[Marks : 20]

(4 Hours)

Answer all questions.

3. Make a suitable staining of the endospore of supplied bacterial sample (A). Draw microscopic view of the stained bacteria and give your comment on it. 5

(Work - 1, Stain - 2, Drawing - 1, Comment - 1)

4. Find out the sensitivity of the bacterial sample (B) against the supplied antibiotics (C, D and E) and give your comment on it. 5

(Work - 1, Result - 3, Comment - 1)

5. Show the fermentative capacity of the supplied bacterial sample (F) against the following sugars (G, H and I) and give your comment. 5

(Work - 1, Result - 3, Comment - 1)

6. Laboratory Note Book. 2

7. Viva Voce. 3