

2022

M.Sc.

2nd Semester Examination

MICROBIOLOGY

PAPER—296

(Practical)

Full Marks : 50

Time : 2 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.

Illustrate the answers wherever necessary.

**UNIT-296.1 VISIT TO INSTITUTE AND
PREPARATION OF REPORT**

1. Report preparation and submission in hard copy. 10
2. Presentation. 8

(Turn Over)

3. Viva-voce.

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**UNIT-296.2 MICROBIAL GENETICS AND
MOLECULAR BIOLOGY**

1. Determine whether or not the supplied bacterial sample is capable to produce beta-galactosidase in presence of lactose as substrate?

(Process-3, Working-2, Result and Interpretation-2.5)

Or

Extract chromosomal DNA from supplied bacterial culture and run on agarose gel.

(Requirements - 1.5, Procedure - 3.5, Result - 2.5)

2. Isolate a mutant after treatment with UV radiation.

(Procedure - 3, Result - 3, Inference - 1.5)

3. Viva-voce

3

4. Laboratory note book

2

5. Internal assessment

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