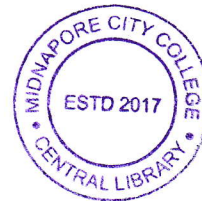


Total page: 01

**PG CBCS**  
**M.Sc. Semester-II Examination, 2022**  
**BOTANY**  
**PAPER: BOT 195**  
**(PRACTICAL)**



Full Marks: 50

Time: 6 Hours

**Write the answer for each unit in separate sheet**

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.

**BOT 195.1 MICROBIOLOGY**

**Attempt all the questions:**

- |   |       |
|---|-------|
| a) Perform Gram-staining of the supplied sample A or B<br>(Principle: 3; Procedure: 2; Interpretation: 2; Work: 3)  | 10    |
| b) Enumerate bacteria in the supplied soil sample C or D by following the serial dilution method.<br>(Principle: 2; Procedure: 2; Result: 2; Work: 3; Interpretation:)              | 10    |
| <b>Or</b>   |       |
| c) Comment on the sensitivity of supplied bacteria 'M' against the given antibiotic 'N' through disk method.<br>(Principle: 2; Work: 3; Procedure: 2; Result: 2; Interpretation: 1) | 10    |
| d) Practical notebook and viva-voce   | 2+3=5 |

**UNIT-II**

**BOT 195.2 - PHYCOLOGY & BRYOLOGY**

**Attempt all the questions:**

- |  |       |
|--|-------|
| a) Make a suitable preparation and work out the specimen 'A'<br>(Preparation-1; Drawing-2; Description-2; Comment-1; Identification-1) | 7     |
| b) Work out the microscopic study of specimen 'B'<br>(Slide preparation-1; Description-3; Comment-2; Identification-1)                 | 7     |
| c) Identify the specimens 'C' and 'D'  | 1.5×2 |
| d) Submission of specimens and permanent slides  | 3     |
| e) Submission of laboratory note book.   | 5     |

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