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PG CBCS
M.Sc. Semester- IV Examination, 2023
BOTANY
PAPER: BOT 495D
(MICROBIOLOGY)

**Full Marks: 50****Time: 6 Hours**1. Answer ALL questions:

- a) Estimate the amount of DNA present in the supplied sample A or B.
 [Principle: 2; procedure: 3; work: 3; Interpretation:2] 10
- b) Draw a phylogenetic tree through CLUSTAL by the supplied sequence A or B the supplied sequence C or D. 7
 [Principle: 2, procedure: 2, work: 3]
- c) Perform TLC analysis of supplied amino acid X, Y, & Z. Determine R_f value of the amino acids. 10
 [Principle:1, Procedure:2. Work:3, Result:2, Conclusion:2]
- d) Determine MIC of the supplied antibiotic (P) against the supplied bacteria (Q). 12
 [Principle:2, Procedur:3, Work:3, Result:2, Conclusion:2]
- e) Laboratory note book. 4
- f) Viva voce. 7
