

2025

M.Sc. 1st Semester Examination

MICROBIOLOGY

Paper : MCBE404A1

(Microbial Physiology and Cell Biology)

Full Marks : 25

Time : One Hour

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. Mention the effect of two physical factors for control of microbial growth.
2. What is divisome?
3. Mention the basic features of cancer cell.
4. Why serum is used for animal cell culture?

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. Give the difference between mitosis and meiosis.

P.T.O.

(2)

6. How many check points are found in cell cycle? Write their significance. 1+3
7. Discuss "Quorum sensing".
8. Mention the difference between batch culture and continuous culture.

Group - C

Answer any *one* question : 8×1=8

9. Mention the steps of "endospore" formation of bacteria.
10. Discuss various cell inclusions from prokaryotic system with suitable example.

Internal Assessment : 5 marks
