

2026

2nd Semester Examination (CCFUP : NEP)

BMLT

Paper Code : BMLVAC2

BASIC MICROBIOLOGY



Full Marks : 40

Time : Two Hours

*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 *five* questions : $2 \times 5 = 10$

1. Write the importance of dipicolinic acid in endospore-forming bacteria.
2. What is an antiseptic agent? Give one example.
3. What is meant by polymicrobial infection?
4. Name one brick-shaped and one bullet-shaped virus.
5. Differentiate between yeast and mould.
6. What is a fastidious organism?
7. Cite two capsule-forming bacteria.
8. What is meant by zoonotic virus?



(2)

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. What is the function of mordant and decolorizer in Gram stain? Differentiate between the cell wall of Gram-positive and Gram-negative bacteria. $2+3$
10. What is the yeast-to-mycelial (Y-M) shift in fungi? Differentiate between sporangiospore and conidiospore. $2+3$
11. Differentiate dry heat sterilization with moist heat sterilization.
12. Write the full form of LPCB. Write a short note on germ tube test. $1+4$
13. Discuss about the Baltimore classification of viruses.
14. Describe the different specimen collection techniques used for the diagnosis of mycotic infections.

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Discuss about the causative agent, symptoms and laboratory diagnostic methods of cryptococcosis. $1+3+6$
16. Define generation time. Mention factors affecting bacterial growth. Discuss the bacterial growth curve with suitable diagram. $2+3+5$