

Raja N. L. Khan Women's College (Autonomous)
PG Sem-I End Examinations- 2022
Sub – Botany
Paper – BOT 101 (MICROBIOLOGY)
F.M- 40

Group-A

1. Answer any four questions: 2 x 4= 8
- i) What is Biofilm?
 - ii) Define magnetosome.
 - iii) Mention the functions of Capsule?
 - iv) Mention two contributions of Louis Pasteur.
 - v) What are prions?
 - vi) What are hyperthermophiles? Give example.
 - vii) Define Nod factors.
 - viii) What is plasmid curing?

Group-B

2. Answer any four questions: 4 x 4= 16
- i) Describe the three domain concept as per Woese classification.
 - ii) Write short notes on F-Plasmid and R-Plasmid.
 - iii) Write a short note on Latex agglutination test with diagram.
 - iv) Write down microbial production of citric acid.
 - v) What is synchronous culture? Mention its utility?
 - vi) Mention the major events in nodule formation of Biological nitrogen fixation.

Group-C

3. Answer any two questions: 8 x 2= 16
- i) Describe the structure of cell wall of Gram positive and Gram negative bacteria with suitable diagrams.
 - ii) Give a comparative account of different immunoglobins with diagram.
 - iii) Write notes on a) virus induced cancer; b) Lysogenic regulation.
 - iv) Demonstrate with proper diagram
 - a) $F^+ \times F^-$ conjugation
 - b) $Hfr \times F^-$ conjugation
 - c) $F' \times F^-$ conjugation