

First Basic B.Sc. (Nursing) Examination, (Phase - II) Winter - 2024
MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 75

- Instructions :**
- 1) Use **black ball point pen only.**
 - 2) **Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.**
 - 3) **All questions are compulsory.**
 - 4) **The number to the right indicates full marks.**
 - 5) **Draw diagrams wherever necessary.**
 - 6) **Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.**
 - 7) **Use a common answerbook for all sections.**

SECTION - A (40 Marks)

1. **Short Answer Questions (Solve any 5 out of 6) :** **[5×5=25]**
 - a) Classification of Bacteria with diagrams and examples.
 - b) Pathogenicity of Staphylococcus aureus.
 - c) Precipitation reaction.
 - d) VDRL Test.
 - e) Contributions of Robert Koch in Microbiology.
 - f) Bacterial Growth Curve.

2. **Long Answer Questions (Solve any 1 out of 2) :** **[1×15=15]**
 - a) Enlist organisms causing respiratory tract infection. Write in detail about pathogenesis and laboratory diagnosis of Tuberculosis.
 - b) Define Sterilization and Disinfection. Classify methods of Sterilization. Write a short note on Autoclave.

SECTION - B (35 Marks)

3. Short Answer Questions (Solve any 4 out of 5) : [4×5=20]

- a) Write down the principles and application of agglutination reaction.
- b) Anaerobic culture methods.
- c) Importance of Microbiology for nurses.
- d) Mention different modes of transmission of infection.
- e) Collection of Blood for Culture.

4. Long Answer Questions (Solve any 1 out of 2) : [1×15=15]

- a) Explain physical/environmental factors affecting bacterial growth. Describe in detail the effect of temperature and moisture on growth of Bacteria.
- b) Write down pathogenesis and laboratory diagnosis of enteric fever.

