

**First Basic B.Sc. Nursing (Old) Examination, Winter - 2022**  
**MICROBIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

**SECTION - A & SECTION - B**

- Instructions :**
- 1) Use **blue/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 (**any five** out of six) : **[5×5=25]**
- a) Write note on Gram stain.
  - b) IgM Antibody.
  - c) Write a note on sterilization by filtration method.
  - d) Enlist 4 DNA & 4 RNA Viruses.
  - e) Write a note on bacterial cell wall.
  - f) Write a note on Blood culture.

2. Long answer questions (**any one** out of two) : [1×15=15]
- Define sterilization & Disinfection. Discuss in detail sterilization by moist heat.
  - Define agglutination. Write in detail about agglutination reactions.

**SECTION - B (35 Marks)**

3. Short answer questions (**any four** out of five) : [4×5=20]
- Write life cycle of Malaria.
  - Write a note on Candida.
  - Define carriers. Mention different types of carriers with examples.
  - Write contributions of Louis Pasteur.
  - Write a note on Type I Hypersensitivity reaction.
4. Long answer questions (**any one** out of two) : [1×15=15]
- Draw a neat & well labelled diagram of HIV. Write morphology, transmission, Pathogenicity & Laboratory diagnosis of HIV.
  - Define Hospital Infection. Write in detail about hospital acquired infection.

