



**First Basic B.Sc. Nursing Examination, (Phase - III) Winter - 2021**  
**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 question (**any five** out of six) : [5 × 5 = 25]
- a) Write a note on gram staining.
  - b) Bacterial growth curve.
  - c) Precipitation reaction.
  - d) Biomedical waste management.
  - e) Life cycle of malaria parasite
  - f) Candidiasis

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2. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) What is immunity? Explain different types of immunity.
  - b) Classify culture media. Describe each type of culture media with one example of each.

**SECTION - B (35 Marks)**

3. Short answer question (**any four** out of five) : [4 × 5 = 20]
- a) Pathogenicity of tuberculosis.
  - b) Enlist Koch's postulates.
  - c) Bacterial spore.
  - d) Widal test.
  - e) Write a note on autoclave.
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Write pathogenesis and laboratory diagnosis of enteric fever.
  - b) Describe various methods of transmission of infection with example of each.

