

**First Basic B.Sc. Nursing Examination, Winter - 2023 (Phase - II)**  
**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 the 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 answer book for all sections.**

**Section "A" (40 Marks)**

**Q1) Short answer question (any five out of six):**

**[5 × 5 = 25]**

- a) Difference between cell wall gram positive and gram negative bacteria
- b) Three technique to demonstrate treponema pallidum in laboratory
- c) Staphylococcus aureus
- d) Structure and function of bacterial flagella
- e) Enumerate six organism causing diarrhoea
- f) Procedure of Z-N Staining

**Q2) Long answer question (any one out of two):**

[1 x 15 = 15]

- a) Enumerate any four common parasite found in stool specimen.  
Describe the life cycle and laboratory diagnosis of *Ascaris lumbricoides*.  
Mention the various complications associated with *Ascaris* infection
- b) Describe in detail biomedical waste management

**Section "B" (35 Marks)**

**Q3) Short answer question (any four out of five):**

[4 x 5 = 20]

- a) National Immunization Schedule
- b) Types of Immunity
- c) PPE (Personal protective equipment)
- d) Name three 3 DNA and 3 RNA viruses
- e) VDRL test

**Q4) Long answer question (any one out of two):**

[1 x 15 = 15]

- a) Enumerate different types of culture media with examples. Add a note on selective media
- b) Modes of transmission of HIV infection. Write laboratory test of HIV infection in brief. Write Nursing care of HIV patient

