

**First Basic B.Sc. (Nursing) Examination, Phase - II**  
**Summer - 2022**  
**MICROBIOLOGY**

Total Duration : 3 Hours

Total Marks : 75

- 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) DPT vaccine
  - b) Cultivation of virus
  - c) Bacterial growth curve
  - d) Louis Pasteur
  - e) Nagler's reaction
  - f) Candida albicans
  
2. Long answer question (**any one** out of two) : [1 × 15 = 15]
  - a) Enumerate 03 protozoa  
Describe morphology, life cycle of Entamoeba histolytica  
Write pathogenicity and laboratory of E.histolytica

- b) Define Microbiology  
Explain the Postulates of Robert Koch's  
Describe Scope and Importance of Microbiology

**SECTION "B" (35 Marks)**

3. Short answer question (any four out of five) : [4 × 5 = 20]
- a) Bacterial Capsule.
  - b) Discuss disk diffusion technique of Antibiotic sensitivity testing.
  - c) Collection of Sputum sample for bacteria culture.
  - d) Name opportunistic fungal infections.
  - e) Define Zoonotic diseases. Write names of any two zoonotic disease.
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Discuss the pathogenesis and laboratory diagnosis of pulmonary Tuberculosis
  - b) Define sterilization and disinfection  
Enumerate methods of sterilization by heat  
Describe principle, functioning, uses of hot air oven

