

**First Basic B.Sc. Nursing Examination, Summer 2015**  
**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 answer book for **all Sections.**

SECTION – A

(40 Marks)

1. Short answer question (any five out of six) : (5×5=25)
  - a) Blood culture.
  - b) Write a note on bacterial growth curve.
  - c) Write a note on Koch's postulates.
  - d) Write pathogenicity of Candida albicans.
  - e) Life cycle of Ascaris Lumbricoides (round worm)
  - f) Write a note on gram staining.
  
2. Long answer question (any one out of two) : (1×15=15)
  - a) Draw a neat, well labelled diagram of HIV. Write modes of transmission of HIV. Write pathogenicity and laboratory diagnosis of HIV.
  - b) Enumerate respiratory tract infections. Write morphology, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.

## SECTION – B

(35 Marks)

3. Short answer question (any four out of five) :

(4×5=20)

- a) Write a note on Bacterial Cell wall.
- b) Agglutination reactions.
- c) Standard safety precautions while working in microbiology laboratory.
- d) Widal test.
- e) Type I Hypersensitivity reaction.

4. Long answer question (any one out of two) :

(1×15=15)

- a) Define sterilization. Describe in detail about sterilisation by heat.
- b) Define Immunity. Classify Immunity. Add a note on National Immunization schedule.

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