



62505

**First Basic B.Sc. Nursing Examination, Summer 2017**  
**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) Precipitation reaction.
  - b) Widal test.
  - c) Write contributions of Louis Pasteur to microbiology.
  - d) Grams staining.
  - e) Draw diagram of bacterial cell and explain briefly.
  - f) Write standard safety precautions while working in microbiology laboratory.
2. Long answer question (any one out of two) : (1×15=15)
  - a) Define and classify Immunity. Distinguish between Active and Passive Immunity. Write short note on innate Immunity.
  - b) Describe morphology of Bacteriophage with neat and well-labelled diagram. Describe in detail about various viral isolation methods.

62505



SECTION – B

(35 Marks)

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

(4×5=20)

- a) Biomedical waste management.
- b) Life cycle of malaria parasite.
- c) Describe the normal microbial flora of different parts of the body.
- d) Blood culture.
- e) Laboratory diagnosis of urinary tract infections.

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

(1×15=15)

- a) Define Sterilization and Disinfection. Classify methods of Sterilization. Write a short note on Hot Air oven.
- b) Draw a neat diagram of HIV. Write the causes of HIV infection. Write the stages of HIV infection.

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