



**First Basic B.Sc. Nursing Examination, Winter 2016
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 section.**

SECTION – A (40 Marks)

1. Short answer question (**any five** out of six) : **(5×5=25)**
 - a) Bio-medical Waste management.
 - b) Anaerobic culture methods.
 - c) Blood culture.
 - d) Define antibody and explain in detail about IgM antibody.
 - e) Bacterial spore.
 - f) Enlist Koch's Postulates.

2. Long answer question (**any one** out of two) : **(1×15=15)**
 - a) What are nosocomial infections ? What are the common causes of nosocomial infections ? What is the role of nurse in controlling nosocomial infections ?
 - b) Describe Growth curve of Bacteria with a labelled diagram. What is the effect of temperature, moisture and presence of oxygen on the growth of bacteria ?



SECTION – B (35 Marks)

3. Short answer question (**any four** out of five) : (4×5=20)
- Describe pathogenicity of Salmonella.
 - Highlight the importance of sample collection in Microbiology.
 - What are the different parts of a microscope and how you will take care of the microscope ?
 - List 4 DNA viruses and 4 RNA viruses.
 - Laboratory diagnosis of pulmonary tuberculosis.
4. Long answer question (**any one** out of two) : (1×15=15)
- What is disinfection ? Describe various chemical methods of Disinfection.
 - Draw a neat and well labelled diagram of bacterial cell. Describe in detail about different organelles of bacteria.
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