

First Basic B.Sc. Nursing Examination, Winter 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) Koch's Postulates.
 - b) Write down the principle and application of agglutination reaction.
 - c) Write in short about autoclave.
 - d) Draw well labelled diagram of embryonated egg. Mention the various sites of inoculation of viral specimens with examples.
 - e) Write down the differences between amoebic and bacillary dysentery.
 - f) Universal safety precautions.

2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Write pathogenesis and laboratory diagnosis of enteric fever.
 - b) Write in detail about Hospital waste management.

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SECTION – B (35 Marks)

3. Short answer question (**any four** out of five) : (4×5=20)
- a) Write down the differences between oral and killed polio vaccine.
 - b) What are the various modes of transmission of infections ?
 - c) Write down the morphological classification of fungi with examples.
 - d) Bacterial growth curve.
 - e) Write the life cycle of *Pl. vivax*.
4. Long answer question (**any one** out of two) : (1×15=15)
- a) Draw well labelled diagram of HIV virus. Write modes of Transmission of AIDS. Write in detail pathogenesis and laboratory diagnosis of AIDS.
 - b) Enumerate the organisms causing urinary tract infection. Write down the laboratory diagnosis of UTI.
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