



First Basic B.Sc. Nursing Examination, Winter 2018
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) Life cycle of malaria parasite.
 - b) Write a short answer on modes of transmission of Infection.
 - c) Oral polio vaccine.
 - d) Laboratory diagnosis of Syphilis.
 - e) Write short answer on Candidiasis.
 - f) Describe Gram's Staining procedure.

2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Write morphology, cultural characteristics, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.
 - b) Define Sterilization. Enlist different methods of sterilization. Write in detail about autoclave.



SECTION - E (35 Marks)

3. Short answer question (**any four** out of five) : (4×5=20)
- a) Bacterial growth curve. ✓
 - b) Classify culture media with example. ✓
 - c) Differentiate between Gram Positive and Gram Negative Bacteria. ✓
 - d) Write a short answer on universal safety/ precautions. ✓
 - e) Write a short answer on laboratory diagnosis of Typhoid.
4. Long answer question (**any one** out of two) : (1×15=15)
- a) Enlist organisms causing diarrhea. Write in detail about pathogenesis and laboratory diagnosis of cholera.
 - b) What is infection ? Define Nosocomial infection. Enlist organisms causing nosocomial infection. Describe in detail role of Hospital Infection Control Nurse (HICN). ✓



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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.



SECTION – B (35 Marks)

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

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MICROBIOLOGY**

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 - 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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Section "A" (40 Marks)

1. Short answer question (**any five** out of two)

- a) Biomedical waste management. **3**
- b) Z.N. staining. **3**
- c) Pathogenicity of tuberculosis.
- d) Hypersensitivity type I.
- e) General characteristics of Viruses. **1**
- f) Contribution of Louis Pasteur. **6**

Specific (5x5=25)
Not report in diagnosis
Skinner test

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

- a) Define the term Immunity. Write the differences between Active and Passive Immunity. Explain the National Immunization Schedule.
- b) Define sterilization and disinfection. Classify methods of sterilization by heat. Describe Hot Air Oven. **12**

(1x15=15)

Section "B" (35 Marks)

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

- a) Life cycle of Malaria parasite. **5**
- b) Give three different types of fungal classifications.
- c) Bacterial growth curve. **5**
- d) Pathogenicity of vibrio cholera.
- e) Normal Microbial flora of human body.

(4x5=20)

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

- a) Draw a neat & well labelled diagram of HIV. What are the modes of transmission of HIV ? Discuss in detail about the laboratory diagnosis of HIV. **10**
- b) Name the organism causing Enteric fever and explain its cultural characteristics. Discuss the Laboratory diagnosis of typhoid.

(1x15=15)