

First P.B.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) Contributions of Robert Koch.
 - b) Gram Staining.
 - c) Classify culture media with examples.
 - d) Biomedical waste management.
 - e) Hepatitis Virus.
 - f) Collection of specimen.
2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Draw neat and well labelled diagram of HIV. Write morphology, transmission, pathogenicity and Laboratory diagnosis of HIV.
 - b) Define Hospital infection. Describe in detail about Hospital Infection. Explain role of nurses for preventing hospital infection.

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SECTION – B (35 Marks)

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

(4×5=20)

- a) Life cycle of Malarial parasite.
- b) Write difference between live and killed vaccines.
- c) Laboratory diagnosis of Enteric fever.
- d) Classify fungi according to their morphology.
- e) Bacterial cell wall.

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

(1×15=15)

- a) Define sterilisation and disinfection. Write in detail about moist heat sterilisation.
 - b) Write morphology, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.
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MICROBIOLOGY

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SECTION – A and SECTION – B

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 - 3) **All** questions are **compulsory**.
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams **wherever** necessary.
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 - 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) Name 2 DNA 2 RNA viruses.
 - b) Write Koch's postulates.
 - c) Define antigen and antibody.
 - d) Write life cycle of Round worm.
 - e) Write a note on carriers.
 - f) Write a note on dermatophytes.

2. Long answer question (any one out of two) : (1×15=15)
 - a) Define hospital infection. Write factors affecting hospital infection. Write common hospital infections. Name common organisms causing hospital infection. Write hospital infection control policy.
 - b) Write morphology, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.

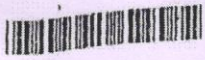
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SECTION – B (35 Marks)

3. Short answer question (any four out of five) : (4×5=20)
- a) Write a note on IgA antibody.
 - b) Gram staining.
 - c) Classify culture media with examples.
 - d) Sexually transmitted diseases.
 - e) Biomedical waste management.
4. Long answer question (any one out of two) : (1×15=15)
- a) Define Sterilisation and Disinfection. Write in detail about moist heat sterilisation.
 - b) Draw a neat and well labelled diagram of HIV. Write its transmission, pathogenicity and laboratory diagnosis of HIV.
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61305



First P.B.B.Sc. Nursing Examination, Winter 2016
MICROBIOLOGY

Total Marks : 75

Total Duration : Section A + B = 3 Hours

SECTION – A & SECTION – B

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SECTION – A (40 Marks)

1. Short answer question (any five out of six) :

(5x5=25)

- a) Precipitation reaction.
- b) Bacterial flagella.
- c) Laboratory diagnosis of hepatitis.
- d) Culture media with example.
- e) Collection of blood for culture.
- f) Hot air oven.

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

(1x15=15)

- a) Enlist organisms causing Pyrexia of Unknown Origin (PUO). Write in detail pathogenesis and laboratory diagnosis of Typhoid.
- b) Define sterilization and Disinfection. Write about characteristic of good disinfectant. write in detail about autoclave.

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SECTION - B (35 Marks)

(4x5=20)

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

- ~~a)~~ Modes of transmission of infection.
- ~~b)~~ Methods of cultivation of Viruses.
- ~~c)~~ Biomedical waste management.
- ~~d)~~ Type -1 Hypersensitivity reaction.
- ~~e)~~ Grams staining.

(1x15=15)

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

- a) Define Nosocomial infection. Describe various types of Nosocomial infections. Name the common organisms causing nosocomial infection. Add short note on outbreak investigation.
 - b) Name various parasites found in blood smear. Explain life cycle of Malaria parasite. Lab diagnosis of Malaria.
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Total Duration: Section A+B = 3 Hours

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- 7) Use a common answer book for all sections.

Section "A" (40 Marks)

1. Short answer question (any five out of six) :

(5x5=25)

- a) Methods of cultivation of viruses.
- b) Lab diagnosis of urinary tract infection.
- c) Write short note on Autoclave.
- d) Bacterial Cell Wall.
- e) Write methods of transmission of HIV.
- f) Write a note on universal safety precautions.

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

(1x15=15)

- a) Define sterilization and disinfection. Classify various methods of sterilization. Describe Hot Air Oven.
- b) List the various organisms causing Diarrhoea. Describe morphology, cultural characteristics, pathogenicity & Lab. diagnosis of Vibrio Cholera.

Section "B" (35 Marks)

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

(4x5=20)

- a) Widal Test.
- b) Bacterial growth curve.
- c) Z-N staining
- d) Lab. Diagnosis of Candida.
- e) Anaphylaxis.

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

(1x15=15)

- a) Draw a neat well labelled diagram of HIV. Describe pathogenicity and lab diagnosis of HIV.
- b) Describe various modes of transmission of infection. List the organisms causing Nosocomial infections. Discuss methods of prevention of nosocomial infection.