

First P.B.B.Sc. Nursing Examination, Winter - 2022
MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 75

- 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 answer book for all sections.

SECTION - "A" (40 Marks)

1. Short answer question (**any five** out of six) : [5 × 5 = 25]
- a) Write the difference between Taenia saginata & Taenia solium.
 - b) Write a note on bacterial spore.
 - c) Write laboratory diagnosis of enteric fever.
 - d) Write a note on mycetoma.
 - e) Write a note on dematophytes.
 - f) Write a note on acid fast staining.

2. Long answer question (any one out of two) : [1 × 15 = 15]

- a) Write morphology, cultural characteristics, pathogenicity & Laboratory diagnosis of Vibrio cholera.
- b) Define sterilisation & disinfection. Describe in detail about physical methods of sterilisation.

SECTION - "B" (35 Marks)

3. Short answer question (any four out of five) : [4 × 5 = 20]

- a) Write a note on disinfection. *disinfection*
- b) Write a note on Staphylococci.
- c) Write a note on serological markers for diagnosis of Hepatitis B.
- d) Write procedure for collection of specimens- blood, urine, csf, sputum, throat swab.
- e) Write a note on bacterial flagella.

4. Long answer question (any one out of two) : [1 × 15 = 15]

- a) Define antigen & antibody. Define agglutination. Write in detail of agglutination reactions with examples.
- b) Describe in detail about hospital acquired infection & hospital waste management.



[Total No. of Pages : 2

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First P.B.B.Sc. Nursing Examination, Phase - II Summer - 2022

MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 75

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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) : [5 × 5 = 25]
- a) Write a note on Bacterial Flagella.
 - b) Classify various methods of sterilization.
 - c) Describe Ziel Nelson staining. Give examples of acid fast bacteria.
 - d) Classify viruses. Give examples of each.
 - e) Write in brief laboratory diagnosis of cholera.
 - f) Describe various Modes of transmission of infection.

2. Long answer question (any one out of two) : [1 × 15 = 15]
- Define the term Immunity. Write the differences between Active and Passive Immunity. Enlist and explain immunoglobulin classes with their functions.
 - Name organism causing enteric fever and explain its pathogenesis. Write Laboratory diagnosis of enteric fever.

SECTION - "B" (35 Marks)

3. Short answer question (any four out of five) : [4 × 5 = 20]
- Write a note on universal safety precautions.
 - Explain a detailed note on Cold chain of vaccine.
 - Write a short note on Hot Air Oven.
 - Write in brief various lesions caused by *Candida* and its laboratory diagnosis.
 - Write various measures for prevention of nosocomial infections.
4. Long answer question (any one out of two) : [1 × 15 = 15]
- Write Modes of transmission of HIV. Enumerate opportunistic infections in HIV positive patients. Briefly write about prevention of HIV.
 - Write general characteristics of Viruses. Methods of cultivation of viruses. Write National Immunization schedule.



First P.B. B.Sc. Nursing Examination, (Phase - III) Winter - 2021
MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 75

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

SECTION "A" (40 Marks)

1. Short answer questions (any five out of six) : [5 × 5 = 25]
 - a) Gram Staining
 - b) Agglutination Reaction
 - c) Factors influencing antibody production
 - d) Anaphylaxis
 - e) Immunoglobulin G
 - f) ELISA test

2. Long answer questions (any one out of two) : [1 × 15 = 15]
 - a) Enumerate the organism causing diarrhea. Describe the morphological, cultural and antigenic characteristics of E. Coil
 - b)
 - i) Describe the pathogenesis and Laboratory diagnosis of Rabies. [5]
 - ii) Discuss the clinical stages of Rabies in humans and in dog. [5]
 - iii) Explain the prophylaxis and treatment of Rabies in human. [5]

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SECTION "B" (35 Marks)

3. Short answer questions (any four out of five) : [4 × 5 = 20]
- a) Bacterial Spore
 - b) Cultural characteristics of staphylococci
 - c) Plasmids
 - d) Pyrexia of Unknown Origin (PUO)
 - e) Life cycle of malaria Parasite
4. Long answer questions (any one out of two) : [1 × 15 = 15]
- a) i) Classification of spirochetes. [3]
 - ii) Discuss morphology and cultivation of Treponema Pallidum. [6]
 - iii) Describe antigenic structure and pathogenicity of Treponema Pallidum. [6]
 - b) i) Explain Classification and morphology of human herpesvirus. [5]
 - ii) Discuss pathogenicity and laboratory diagnosis of varicella. [5]
 - iii) Describe prophylaxis and treatment of varicella. [5]

First P.B.B.Sc. Nursing Examination, Summer - 2021

MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 75

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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) : [5 × 5 = 25]
 - a) Differentiate between Primary and Secondary Tuberculosis.
 - b) Write a note on Types of Infection.
 - c) Write a note on Hospital infection Control Program.
 - d) Write a note on Sterilization.
 - e) Differentiate between Gram Positive and Gram Negative Bateria.
 - f) Write a note on Bio-medical waste management.

2. Long answer question (**any one** out of two) : [1 × 15 = 15]
 - a) Describe the various factors affecting the growth of bacteria.
 - b) What is Staining? Explain in detail procedure of Acid Fast and Gram Staining.

SECTION "B" (35 Marks)

3. Short answer question (**any four** out of five) : [4 × 5 = 20]
- a) What is Disinfection? Write a Short Note on Disinfection.
 - b) Write a Short note on Structure of Viruses.
 - c) Describe the laboratory procedure for diagnosis of Malaria.
 - d) Write a short note on fungal infections.
 - e) Describe Pathogenesis of Salmonella.
4. Long answer question (**any one** out of two): [1 × 15 = 15]
- a) Describe the Growth Curve of Bacteria in detail.
 - b) Write down the pathogenesis and laboratory diagnosis of a treponema pallidum.



First P.B. B.Sc. Nursing Examination, Winter - 2020
MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION - A & 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.**
 - 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) Write a Short note on Type IV Hypersensitivity.
 - b) Differentiate between Active and Passive immunity.
 - c) Write a short note on cultivation of virus.
 - d) Write contributions of Robert Koch and describe Koch's postulates.
 - e) Write a short note on Cell wall of bacteria.
 - f) Write a short note on Infection.

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2. Long answer question (any one out of two): [1 × 15 = 15]
- Write down the pathogenesis, laboratory diagnosis and immunoprophylaxis of *M. tuberculosis*
 - What is nosocomial infection? Describe the role of Nurse in preventing nosocomial infection.

SECTION - B (35 Marks)

3. Short answer question (any four out of five): [4 × 5 = 20]
- Write a short note on anaerobic culture methods.
 - Write a short note on Leishmaniasis (Kala-azar).
 - Write a short note on Opportunistic infections.
 - Write a note on types of Hepatitis.
 - Write a note on types of Staining Methods.
4. Long answer question (any one out of two): [1 × 15 = 15]
- What is sterilization? What are the various methods of physical methods of sterilization?
 - Write down the laboratory identification process of blood born infections.





**First P.B. B.Sc. Nursing Examination, Summer
(Phase - III : All Other Remaining UG/PG Courses) - 2020
MICROBIOLOGY**

Total Duration : 3 Hours

Total Marks : 75

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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 answer book for all sections.

SECTION - A (40 Marks)

1. Short answer question (any five out of six) : [5 × 5 = 25]
- a) Food borne infection.
 - b) Describe methods of Viral culture.
 - c) Contribution of Louis Pasteur to Microbiology.
 - d) Bacterial growth curve.
 - e) Modes of transmission of infection.
 - f) Cold chain.



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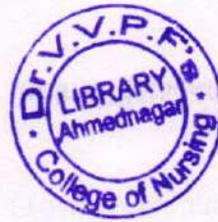
2. Long answer questions (any one out of two): [1 × 15 = 15]
- Define Sterilisation and Disinfection. Enumerate various methods of Sterilisation. Discuss in detail various methods of Sterilisation by Moist heat.
 - Define Immunity. Classify and discuss types of immunity. Write short note on Immunisation schedule.

SECTION - B (35 Marks)

3. Short answer question (any four out of five): [4 × 5 = 20]
- Anaphylactic reaction.
 - Biomedical waste management.
 - Grams staining.
 - Pathogenicity of Staphylococcus.
 - Bacterial flagella.
4. Long answer question (any one out of two) : [1 × 15 = 15]
- Define Infection. Describe the chain of Infection. Discuss about factors influencing infection. Write short note on role of a nurse in infection prevention.
 - Write full form of HIV and AIDS. Write modes of transmission of HIV. Write Clinical features of HIV infection. Mention the test done for diagnosis of HIV infection.



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**First P.B. B.Sc. Nursing Examination, Winter (Phase - III ALL
Other Remaining UG/PG Course) - 2019
MICROBIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION - A & SECTION - B

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 - 7) Use a common answerbook for all sections.

SECTION - "A" (40 Marks)

1. Short answer questions (any five out of six) : [5 × 5 = 25]
 - a) Universal safety precautions.
 - b) Modes of transmission of HIV.
 - c) Bacterial cell wall.
 - d) Enumerate different egg inoculation sites with examples
 - e) Write Life cycle of malaria.
 - f) Draw a neat well labelled diagram of IgM antibody & write its properties

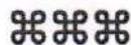


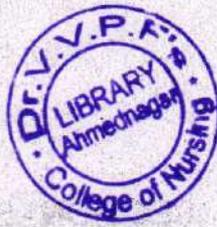
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2. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Write morphology, cultural characteristics, pathogenicity & Laboratory diagnosis of Mycobacterium tuberculosis.
 - b) Define sterilization & disinfection. Describe in detail about sterilization by moist heat method.

SECTION - "B" (35 Marks)

3. Short answer questions (any four out of five) : [4 × 5 = 20]
- a) Bacterial growth curve
 - b) Candidiasis.
 - c) Widal test.
 - d) Write differences between bacillary and amoebic desentery
 - e) Give examples of four DNA & four RNA viruses.
4. Long answer questions (any one out of two) : [1 × 15 = 15]
- a) Define agglutination & precipitation reactions. Describe in detail about precipitation reactions in detail with examples.
 - b) Define hospital acquired infection. Describe in detail about hospital acquired infection with special reference to factors responsible, causative organisms, different infections & its control policies.





First P.B.B.Sc. Nursing Examination, Summer (Phase - II) 2019
MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 75

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

SECTION - A (40 Marks)

1. Short answer questions (**any five** out of six) : [5 × 5 = 25]
 - a) Biomedical waste management.
 - b) Hypersensitivity Type -I reaction.
 - c) Candidiasis.
 - d) Factors affecting Bacterial growth.
 - e) Grams staining.
 - f) General properties of Viruses.

2. Long answer question (**any one** out of two): [1 × 15 = 15]
 - a) Write full form of HIV. Draw neatly diagram of HIV. Write the modes of transmission of HIV. Explain Signs and symptoms of HIV with stages.
 - b) Define Sterilization and Disinfection. Classify Various methods of Sterilization. Write in detail about Hot Air Oven.

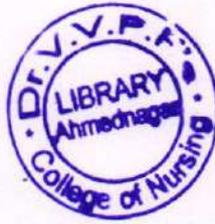


SECTION - B (35 Marks)

3. Short answer question (any four out of five) : [4 × 5 = 20]
- a) Define and classify Immunity.
 - b) Collection of specimen for Urine Culture.
 - c) Classify culture medias.
 - d) Define Carrier. Classify carriers with examples.
 - e) Life cycle of Malaria Parasite.

4. Long answer questions (any one out of two) : [1 × 15 = 15]
- a) Name the organisms causing Diarrhea. Write in detail about Lab diagnosis and management of Diarrhea.
 - b) Define Infection. Explain Modes of transmission of Infection. Write factors contributing to spread of Infection. Write role of Nurse in Prevention of Infection.

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First P.B.B.Sc. Nursing Examination, Winter 2018
MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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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) 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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First P.B. B.Sc. Nursing Examination, Summer 2018
MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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 - 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) Enriched media with example.
 - b) Universal safety precautions.
 - c) IgG immunoglobulins.
 - d) Lab diagnosis of Tuberculosis.
 - e) Pathogenicity of staphylococcus aureus.
 - f) Methods of cultivation of Viruses.

2. Long answer question (**any one** out of two) : **(1×15=15)**
 - a) Define sterilization and Disinfection. Classify methods of sterilization. Write short note on Autoclave.
 - b) What are opportunistic mycoses ? Describe the pathogenesis and Lab diagnosis of Candidiasis.

P.T.O.

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SECTION - B (35 Marks)

3. Short answer question (any four out of five) : (4x5=20)
- a) Koch postulates.
 - b) Differences between bacillary AND Amoebic dysentery.
 - c) Laboratory diagnosis of cholera.
 - d) Grams Staining.
 - e) Bacterial growth curve.
4. Long answer question (any one out of two) : (1x15=15)
- a) Define Nosocomial infection. Describe various nosocomial infections with measures of prevention of each type. Write role of a nurse in prevention of infection.
 - b) Describe morphology of HIV with neat diagram. Describe the pathogenesis and Laboratory diagnosis of AIDS.



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First P.B.B.Sc. Nursing Examination, Winter 2017
MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and SECTION – B

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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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**First P.B.B.Sc. Nursing Examination, Summer 2017
MICROBIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and SECTION – B

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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) : (5×5=25)
 - a) Write on Bacterial food poisoning.
 - b) Enlist and describe Koch's postulates.
 - c) Describe the procedure of Gram's staining.
 - d) Write on Bacterial cell wall.
 - e) Write on Biomedical Waste Management.
 - f) Write on Enriched and Enrichment media.

2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Define Sterilization. Classify the various methods of sterilization and add a note on autoclave.
 - b) What is infection ? Define Nosocomial infection. Enlist organisms causing nosocomial infection. Describe in detail role of Hospital Infection Control Nurse (HICN).

P.T.O.

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SECTION "B" (35 Marks)

3. Short answer question (any four out of five) : (4×5=20)

- a) Write on Antigen.
- b) Write on Human Immunodeficiency Virus- HIV.
- c) Write on superficial mycosis.
- d) Write on Candidiasis.
- e) Collection of sputum sample.

4. Long answer question (any one out of two) : (1×15=15)

- a) List the organisms causing acute diarrhoeal diseases and describe the laboratory diagnosis of Cholera.
- b) Describe in detail Bacterial Growth Curve. Describe the factors affecting bacterial growth.



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

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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 - 3) **All questions are compulsory.**
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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) 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) : (1×15=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.

P.T.O.

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SECTION - B (35 Marks)

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

(4×5=20)

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

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

(1×15=15)

- 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.
-



61305

**First P.B.B.Sc. Nursing Examination, Summer 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 Sections.

SECTION – A (40 Marks)

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

(5x5=25)

- a) Write contributions of Louis Pasteur.
- b) Write a note on Hospital Acquired Infection.
- c) Write a note on blood culture.
- d) Write a note on Candidiasis.
- e) Write laboratory diagnosis of Amoebiasis.
- f) Classify culture media with examples.

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

(1x15=15)

- a) Write morphology, cultural characteristics, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.
- b) Draw a neat well labelled diagram of HIV. Write mode of transmission, pathogenicity and laboratory diagnosis of HIV.

**SECTION – B (35 Marks)**

3. Short answer question (**any four** out of five) : (4x5=20)
- a) Write laboratory diagnosis of *Vibrio cholera*.
 - b) Write immunisation schedule for vaccines.
 - c) Write a note on Gram staining.
 - d) Write a note on sexually transmitted diseases.
 - e) Describe in detail about cell wall of Gram positive and Gram negative bacteria.
4. Long answer question (**any one** out of two) : (1x15=15)
- a) Define sterilisation and disinfection. Describe in detail about physical methods of sterilisation.
 - b) Define hypersensitivity. Write in detail about Type I hypersensitivity.
-



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First P.B.B.Sc. NURSING, Winter 2015

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 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.



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First P.B.B.Sc. Nursing Examination, Summer 2015
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 answer book for all Section.**

SECTION – A (40 Marks)

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

(5×5=25)

- a) Write short note on Elek's gel precipitation test.
- b) Write a short note on Nagler's reaction.
- c) Write a short note on widal test.
- d) Classify dermatophytes with example.
- e) Pathogenicity of Staphylococci.
- f) Explain in detail about IgM antibody.

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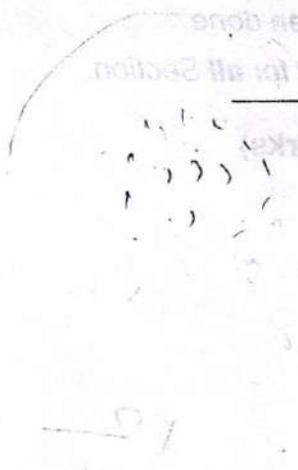
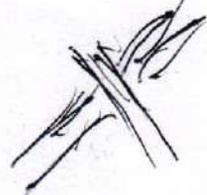


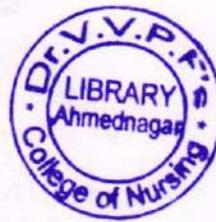
2. Long answer question (**any one** out of two) : 12 (1×15=15)
- a) Classify immunity. Write national immunization schedule. Explain about cold chain.
 - b) Define sterilization and disinfection. Classify methods of sterilization by heat. Describe Hot Air Oven.

SECTION – B (35 Marks)

3. Short answer question (**any four** out of five) : (4×5=20)
- a) Classify and describe culture medias. 12
 - b) Life cycle of *Ancylostoma duodenale*. 13
 - c) Lab diagnosis of Tuberculosis.
 - d) Role of infection control nurse.
 - e) Write down difference between Amoebic and Bacillary dysentery.

4. Long answer question (**any one** out of two) : 1 (1×15=15)
- a) Describe different modes of transmission of infection. Enumerate organisms causing Urinary tract infection. Describe collection of specimen for urine culture.
 - b) Write morphology, cultural characteristics, pathogenicity and laboratory diagnosis of *Vibrio cholera*. 10





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First P.B.B.SC. NURSING, Winter 2014

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 answer book for all section.

Section "A" (40 Marks)

1. Short answer question (any five out of six) : (5x5=25)
 - a) Enlist Koch's Postulates.
 - b) Write a Short note on Bacterial Cell Wall.
 - c) Write a Short note on determinants of antigenicity.
 - d) Write a note on Grams Staining.
 - e) Write a short note on Type-III Hypersensitivity.
 - f) Describe Hospital Infection Control programme.
2. Long answer question (any one out of two) : (1x15=15)
 - a) What is immunity? Classify and describe various types of immunity.
 - b) What is Culture Media? Describe Different Types of Culture Media.

Section "B" (35 Marks)

3. Short answer question (any four out of five) : (4x5=20)
 - a) Give the difference between Bacteria and viruses.
 - b) Write a short note on autoclave.
 - c) Describe laboratory diagnosis of Malaria
 - d) Describe different serological markers of Hpatitis B.
 - e) Write a note on coagulase test.
4. Long answer question (any one out of two) : (1x15=15)
 - a) Write a note on Bacterial Morphology with respect to Cell wall, Flagella, Capsule, Nucleus, Size and Shape.
 - b) Write down morphology, cultural characteristics, pathogenicity and Lab. diagnosis of Mycobacterium tuberculosis.



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First P.B. B.Sc. Nursing Examination, Summer 2013
MICROBIOLOGY

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 60

SECTION – B & SECTION – C

- Instructions:** 1) *All questions are compulsory.*
2) *The number to the right indicates full marks.*
3) *Draw diagrams wherever necessary.*
4) *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.*

SECTION – B

(SAQ)

2. Answer **any five** out of six : (5×3=15)
- a) Spore
 - b) Robert Koch
 - c) 03 differences between Endotoxin and Exotoxin.
 - d) Draw figure of egg of Hook worm and write its pathogenicity.
 - e) DPT vaccine.
 - f) Write morphological classification of fungi.
3. Answer **any three** out of four : (3×5=15)
- a) Life cycle of Plasmodium falciparum.
 - b) Universal safety precautions.
 - c) Role and function of Hospital Infection Control Committee.
 - d) Pathogenicity of Streptococcus pyogens. Mention important post infection complications/sequelae.

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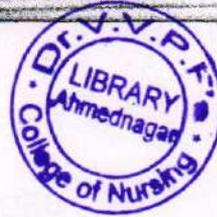


SECTION – C
(LAQ)

Attempt any 2.

(2×15=30)

- | | |
|--|---|
| 4. a) Define Sterilization and Disinfection. | 3 |
| b) Enumerate sterilization by Heat. | 4 |
| c) Write principle, function, uses and sterilization controls of Hot air oven. | 8 |
| 5. a) Mention methods of cultivation of Viruses. | 6 |
| b) Draw labelled diagram of HIV. | 3 |
| c) Write laboratory diagnosis of HIV. | 6 |
| 6. a) Enumerate organism causing Urinary tract infection. | 3 |
| b) Define significant bacteriuria. | 3 |
| c) Write collection, transport, laboratory diagnosis of Urinary tract infection. | 9 |



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First P.B. B.Sc. Nursing Examination, Summer 2012
MICROBIOLOGY

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

- Instructions:**
- 1) **All questions are compulsory.**
 - 2) **The number to the right indicates full marks.**
 - 3) **Draw diagrams wherever necessary.**
 - 4) **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.**

SECTION – B

2. Answer the following (**any five** out of six) : **(5×3=15)**
- a) Type III hypersensitivity reaction
 - b) Mantoux test
 - c) Dosage, Route of administration and schedule of OPV
 - d) Hot air oven
 - e) Draw a neat labeled diagram of hepatitis B virus
 - f) Differences between endotoxin and exotoxin.
3. Answer the following (**any three** out of four) : **(3×5=15)**
- a) Role of 'Infection Control Nurse' in Hospital Infection Control Committee
 - b) Lab diagnosis of Malaria
 - c) Pathogenesis and immune prophylaxis of tetanus
 - d) Classify dermatophytes and give its lab diagnosis.

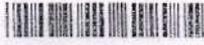
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SECTION - C

4. Answer any two LAQ out of Q. 4, 5 and 6 : (1×15=15)
- a) Give differences between orthomyxo and paramyxo viruses.
 - b) Add a note on antigenic variations seen in orthomyxo virus.
 - c) Give its epidemiological importance.
5. a) Enumerate bacteria causing sore throat (1×15=15)
- b) Describe morphology and pathogenesis of *C. diphtheriae*.
 - c) Give lab diagnosis of diphtheria and add a note on DPT vaccine.
6. a) Give characteristics of Nematodes. (1×15=15)
- b) Enlist intestinal Nematodes
 - c) Describe Life cycle and Pathogenesis of *A. lumbricoides*.
-



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First P.B. B.Sc. Nursing Examination, May/June 2011
MICROBIOLOGY

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION - B & SECTION - C

Instructions: 1) All questions are compulsory.

2) The number to the right indicates full marks.

3) Draw diagrams wherever necessary.

4) 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.



SECTION - B

2. Answer the following (any 5 out of 6): (5×3=15)
- a) Koch's postulates. 3
 - b) High level disinfection. 3
 - c) Define precipitation reaction. Give two examples of precipitation reactions. 3
 - d) Polio vaccines. 3
 - e) Universal safety precautions. 3
 - f) Candida albicans. 3
3. Answer the following (any 3 out of 4): (3×5=15)
- A) Define Hospital Acquired Infections. Describe in brief the composition and role of Hospital Infections Control Committee. 5
 - B) Outline the activities of CSSD. Describe in brief the various autoclave efficiency tests. 5
 - C) Enumerate the established pathogens causing gas gangrene. Briefly discuss the laboratory diagnosis of gas gangrene. 5
 - D) Describe the life cycle and laboratory diagnosis of Echinococcus granulosus. 5

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SECTION - C

Solve **any two** LAQ questions out of the following (Q. 4, Q. 5, and Q. 6) :

4. a) Mention the pathogenicity of tuberculosis and the methods of collection of sample in pulmonary tuberculosis. 5
- b) Mention the laboratory diagnosis of pulmonary tuberculosis. 5
- c) What is RNTCP ? Discuss RNTCP. 5
- (1×15=15)
5. a) Draw a labelled diagram of the structure of Human Immunodeficiency Virus (HIV). 3
- b) Discuss the laboratory diagnosis of HIV infection. 8
- c) Add a note on post-exposure prophylaxis and other measures to be adopted following needle stick injury. 4
- (1×15=15)
6. a) Enumerate the different plasmodium species and the clinical syndromes caused by them in humans. 3
- b) Describe the life cycle of plasmodium falciparum. 4
- c) Discuss the laboratory diagnosis of plasmodium falciparum infection. 8
- (1×15=15)