

[Total No. of Pages : 2

62505

First Basic B.Sc. Nursing Examination, Summer (Phase - II) 2019
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) Laboratory diagnosis of urinary tract infection.
 - b) Importance of Microbiology for nurses.
 - c) Cold chain.
 - d) Grams Staining.
 - e) Standard safety precautions.
 - f) Contribution of Louis Pasteur.

2. Long answer question (**any one** out of two) : [1 × 15 = 15]
 - a) Define Sterilization and Disinfection. Classify methods of Sterilization. Write about principles, structure, functioning and uses of Autoclave.
 - b) Define immunity. Write difference between live vaccine and killed vaccine, write short note on Anaphylaxis.

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SECTION - B (35 Marks)

[4 × 5 = 20]

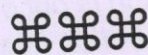
3. Short answer question (**any four** out of five):

- a) Write short note on Dermatophytes.
- b) Biomedical waste management.
- c) Widal test.
- d) Pathogenesis of Staphylococcus aureus.
- e) Characteristics of ideal Disinfectant.

[1 × 15 = 15]

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

- a) Describe chain of infection. Write factors influencing infection. Write the methods of prevention of infection.
- b) Describe opportunistic infection in HIV. Write modes of transmission and laboratory diagnosis of HIV.





First Basic 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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 - 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) Write differences between Active and Passive Immunity.
 - b) Write a note on Candidiasis.
 - c) Write a note on Grams staining.
 - d) Classify immunoglobulins and write in short about IgG.
 - e) Contribution of Louis Pasteur.
 - f) Define carrier and describe various types of carrier with example.
2. 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) Define Sterilization and Disinfection. Enumerate methods of sterilization. Write the principles and functioning of Autoclave.

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SECTION - B (35 Marks)

(4×5=20)

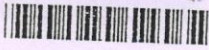
3. Short answer question (**any four** out of five) :

- a) Bacterial growth curve.
- b) Pathogenicity of Staphylococcus aureus.
- c) Oral Polio Vaccine.
- d) Biomedical waste management.
- e) Classify culture media with example.

(1×15=15)

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

- a) Define Nosocomial infection. Describe modes of transmission of Nosocomial infection. Role of a Hospital Infection Control Nurse (HICN).
 - b) Enumerate parasites found in blood smear. Describe Life cycle of Malaria parasite. Write in short about Lab diagnosis of Malaria.
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First Basic B.Sc. Nursing Examination, Summer 2017
MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

Section – A & Section – B

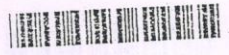
- Instructions:**
- 1) Use **blue/black** ball point pen only.
 - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All questions are compulsory**.
 - 4) The number to 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) Precipitation reaction. *Repeat summer 16*
 - b) Widal test. *Repeat summer 15*
 - c) Write contributions of Louis Pasteur to microbiology. *winter-16 / summer 14 / may/june 2011*
 - d) Grams staining. *summer 2016*
 - e) Draw diagram of bacterial cell and explain briefly.
 - f) Write standard safety precautions while working in microbiology laboratory. *summer 2015*
2. Long answer question (any one out of two) : (1×15=15)
 - a) Define and classify Immunity. Distinguish between Active and Passive Immunity. Write short note on innate Immunity.
 - b) Describe morphology of Bacteriophage with neat and well labelled diagram. Describe in detail about various viral isolation methods.

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SECTION - B

(35 Marks)

(4x5=20)

3. Short answer question (any four out of five):
- a) Biomedical waste management. *winter 3 / summer 2*
 - b) Life cycle of malaria parasite. *winter 3*
 - c) Describe the normal microbial flora of different parts of the body.
 - d) Blood culture.
 - e) Laboratory diagnosis of urinary tract infections.

(1x15=15)

4. Long answer question (any one out of two):
- a) Define Sterilization and Disinfection. Classify methods of Sterilization. Write a short note on Hot Air oven. *Summer 16*
 - b) Draw a neat diagram of HIV. Write the causes of HIV infection. Write the stages of HIV infection.



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First Basic B.Sc. Nursing Examination, Summer 2016
MICROBIOLOGY

Total Duration : Section A+B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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 - 4) The number to the **right** indicates **full** marks.
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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) Grams staining.
 - b) Mention different modes of transmission of infection
 - c) Bacterial growth curve.
 - d) Life cycle of Malaria parasite.
 - e) Candidiasis.
 - f) Precipitation reaction.
2. Long answer question (**any one** out of two) : **(1×15=15)**
 - a) Mention the modes of transmission of HIV. Write in detail about pathogenesis and Laboratory diagnosis of AIDS.
 - b) Define Nosocomial infection. Describe common Nosocomial infections. Role of a nurse in prevention of nosocomial infection.

P.T.O.



SECTION – B

(35 Marks)

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

(4×5=20)

- a) Classify culture media with example.
- b) Difference between Active and Passive immunity.
- c) Biomedical waste segregation.
- d) Bacterial Flagella.
- e) Define carrier. Explain different types with examples.

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

(1×15=15)

- a) Define Sterilization and Disinfection. Write characteristics of good disinfectant. Describe uses, structure, functioning of Hot air oven.
- b) Enlist organisms causing respiratory tract infection. Write in detail about pathogenesis and laboratory diagnosis of Tuberculosis.



Swati Mhaske

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First Basic B.Sc. Nursing Examination, Summer 2015
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 answer book for **all** Sections.

SECTION – A

(40 Marks)

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

(5×5=25)

- a) Blood culture.
- b) Write a note on bacterial growth curve.
- c) Write a note on Koch's postulates.
- d) Write pathogenicity of *Candida albicans*.
- e) Life cycle of *Ascaris Lumbricoides* (round worm)
- f) Write a note on gram staining.

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

(1×15=15)

- a) Draw a neat, well labelled diagram of HIV. Write modes of transmission of HIV. Write pathogenicity and laboratory diagnosis of HIV.
- b) Enumerate respiratory tract infections. 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 Bacterial Cell wall.
- b) Agglutination reactions.
- c) Standard safety precautions while working in microbiology laboratory.
- d) Widal test.
- e) Type I Hypersensitivity reaction.

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

(1×15=15)

- a) Define sterilization. Describe in detail about sterilisation by heat.
- b) Define Immunity. Classify Immunity. Add a note on National Immunization schedule.



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**First Basic B.Sc. Nursing Examination, Summer 2014
MICROBIOLOGY**

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

Section B & C Marks : 60

SECTION – B & SECTION – C

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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 answer book for **all** Sections.

SECTION B

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SECTION – B

(30 Marks)

2. Answer the following (**any five** out of six) :

(5x3=15)

- a) Write a short note on bacterial growth curve.
- b) Describe the procedure of Grams Staining.
- c) Write a short note on Bacillary dysentery.
- d) Write a short note on IgM. *IgM, IgA, IgD, E, M, ADE*
- e) Mention the contribution of Louis Pasteur.
- f) Describe Bacterial Cell Wall.

3. Answer the following (**any three** out of four) :

(3x5=15)

- a) Write contributions of Robert Koch.
- b) Describe laboratory diagnosis of Tuberculosis.
- c) Describe physical method of sterilization with respect to Dry and Moist Heat.
- d) Write a note on Nosocomial Infection.

SECTION – C

(30 Marks)

4. Answer the following (**any two** out of three) :

(2x15=30)

- a) Define Culture Media and Describe different types of culture media with example.
- b) What is Immunity ? Explain different types of immunity.
- c) What is Infection ? What is infection Control ? Explain the role of Nurses in infection control.

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