

**AUGUST - 2005**

**[KN 828]**

**Sub. Code : 4888**

**B.Sc. (Nursing) DEGREE EXAMINATION.**

**(For Trained Nurses)**

**First Year — Non-Semester**

**Paper VII — MICROBIOLOGY**

**Time : Three hours**

**Maximum : 75 marks**

**Sec. A & B : Two hours and  
forty five minutes**

**Sec. A & B : 60 marks**

**Sec. C : Fifteen minutes**

**Sec. C : 15 marks**

**Answer Sections A and B in the SAME answer book.**

**Answer Section C in the answer sheet provided.**

**SECTION A — (2 × 15 = 30 marks)**

**1. Write in detail about Hospital acquired infection  
and methods of its prevention. (15)**

**2. Laboratory diagnosis of Rabies and the  
vaccination schedule for Rabies. (15)**

**SECTION B — (6 × 5 = 30 marks)**

**3. Short notes on any SIX of the following :**

- (a) Polio virus
- (b) CSSD
- (c) BCG vaccine
- (d) Intestinal amoebiasis
- (e) Microfilaria
- (f) Role of mosquitoes in parasitic infection
- (g) Bacterial food poisoning.

**[KO 828]**

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**SECTION B — (6 × 5 = 30 marks)**

**B.Sc. (Nursing) DEGREE EXAMINATION.**

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**Time : Three hours**

**Maximum : 75 marks**

**Sec. A & B : Two hours and  
forty five minutes**

**Sec. A & B : 60 marks**

**Sec. C : Fifteen minutes**

**Sec. C : 15 marks**

**Answer Sections A and B in the SAME answer book.**

**Answer Section C in the answer sheet provided.**

**SECTION A — (2 × 15 = 30 marks)**

**Answer ALL questions.**

1. Define and classify hypersensitivity. Write in detail about type I hypersensitivity.
2. Enumerate the organisms causing fever. Write in detail the laboratory diagnosis of Enteric Fever.

3. Short notes on any SIX of the following :

- (a) Cell wall
- (b) Radiation
- (c) Black water fever
- (d) VDRL Test
- (e) Candidiasis
- (f) AIDS
- (g) Prophylaxis against tetanus.

**[KP 828]**

**Sub. Code : 4888**

**B.Sc. (Nursing) DEGREE EXAMINATION.**

**(For Trained Nurses)**

**First Year — Non-Semester**

**Paper VII — MICROBIOLOGY**

**Time : Three hours**

**Maximum : 75 marks**

**Descriptive : Two hours and**

**Descriptive : 60 marks**

**forty five minutes**

**Objective : Fifteen minutes**

**Objective : 15 marks**

**Answer ALL questions.**

**Write Essays on :**

1. Define sterilisation and disinfection. Enumerate various physical methods of sterilisation. Write in detail about autoclave. (20)
2. Describe in detail the pathogenesis, laboratory diagnosis and prevention of Hepatitis 'B' infection. (15)

3. Short notes on any FIVE of the following :

(5 × 5 = 25)

- (a) Acquired active immunity
- (b) Hydatid cyst
- (c) Cryptococcus Neoformans
- (d) M.M.R. Vaccine
- (e) Flagella
- (f) Robert Koch.

March-2007

**[KQ 828]**

**Sub. Code : 4888**

**B.Sc. (Nursing) DEGREE EXAMINATION.**

**(For Trained Nurses)**

**First Year — Non-Semester**

**Paper VII — MICROBIOLOGY**

**Time : Three hours**

**Maximum : 75 marks**

**Descriptive : Two hours and  
forty five minutes**

**Descriptive: 60 marks**

**Objective : Fifteen minutes**

**Objective : 15 marks**

**Answer ALL questions.**

1. Define immunity. Describe the types of Immunity in detail. (20)

2. Classify bacteria based on their shape. Describe staining techniques for bacteria. (15)

3. Write short notes on any FIVE : (5 × 5 = 25)

(a) DPT vaccine.

(b) Malaria

(c) Chemical disinfectants

(d) Laboratory diagnosis of HIV infection.

(e) Anaerobic culture methods.

(f) Food poisoning.

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**AUGUST 2007**

**[KR 828]**

**Sub. Code : 4888**

**B.Sc. (Nursing) DEGREE EXAMINATION.**

**(For Trained Nurses)**

**First Year — Non-Semester**

**Paper VII — MICROBIOLOGY**

**Time : Three hours**

**Maximum : 75 marks**

**Descriptive : Two hours and**

**Descriptive : 60 marks**

**forty five minutes**

**Objective : Fifteen minutes**

**Objective : 15 marks**

**Answer ALL questions.**

(1) What are the general features of Antigen-Antibody reactions and write in detail about Agglutination and precipitation. (15)

(2) Define sterilisation and write in detail about sterilisation by Moist heat method. (15)

(3) Write Short notes on the following :

(6 × 5 = 30)

(a) Electron microscope

(b) Mantoux test

(c) Amoebic dysentery

(d) Antibiotic susceptibility test

(e) Food poisoning

(f) Viral vaccines.

**FEBRUARY 2008**

**[KS 828]**

**Sub. Code : 4888**

**B.Sc. (Nursing) DEGREE EXAMINATION.**

**(For Trained Nurses)**

**First Year – Non – Semester**

**Paper VII — MICROBIOLOGY**

**Q.P. Code : 684888**

**Time : Three hours**

**Maximum : 75 marks**

**Descriptive : Two hours and  
forty five minutes**

**Descriptive : 60 marks**

**Objective : Fifteen minutes**

**Objective : 15 marks**

**Answer ALL questions.**

**I. Essay :**

**1. Describe laboratory diagnosis and prevention of  
typhoid fever. (15)**

**2. Classify sterilisation. Write in detail about  
autoclave. (15)**

**II. Write short notes on : (6 × 5 = 30)**

**(a) Louis Pasteur.**

**(b) Polio vaccines.**

**(c) Candida.**

**(d) Mantoux test.**

**(e) Amoebiasis.**

**(f) Gram Stain.**

[KT 828]

Sub. Code : 4888

B.Sc. (Nursing) DEGREE EXAMINATION.

(For Trained Nurses)

First Year — Non - Semester

Paper VII — MICROBIOLOGY

Q. P. Code : 684888

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

I. Essays : (2 × 15 = 30)

(1) Define and classify hypersensitivity. Write in detail about type I hypersensitivity reactions. (2 + 3 + 10)

(2) Enumerate the organisms causing diarrhoea. Describe the pathogenesis and lab diagnosis of vibrio cholerae. (3 + 6 + 6)

II. Write short notes on : (5 × 5 = 25)

(1) Bacterial flagella

(2) Autoclave

(3) Tetanus

(4) Lab diagnosis of HIV

(5) Active immunity.

III. Short answer questions : (10 × 2 = 20)

(1) Postulates of Robert Koch

(2) Two uses of electron microscope

(3) Give two examples for selective medium

(4) Define pasteurization

(5) Enumerate two organisms causing urinary tract infections

(6) Name two gases used as disinfectants

(7) Name two toxins produced by staphylococcus aureus

(8) Give two examples for type IV hypersensitivity

(9) Give two examples of toxoid.

(10) Name two organisms causing bacteraemia.

**August 2011**

**[KZ 828]**

**Sub. Code: 4888**

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**First Year – Non – Semester**

**Paper VII – MICROBIOLOGY**

***Q.P. Code : 684888***

**Time : Three hours**

**Maximum : 100 marks**

**Answer All questions.**

**I. Essays:**

**(2X20=40)**

1. Define and classify Hypersensitivity. Discuss in detail about type III hypersensitivity reaction with example.
2. Describe the morphology, cultural characters, pathogenesis and laboratory diagnosis of Klebsiella pneumonia.

**II. Write Short Notes on :**

**(8X 5 = 40)**

1. Add a note on cold sterilisation?
2. Briefly discuss Zoonotic diseases
3. Mediators of Anaphylaxis.
4. Types of bacterial staining methods.
5. Anaerobic culture media.
6. Autoclave.
7. Passive immunity.
8. Hospital infection control.

**III. Short Answer Questions:**

**(10X 2 = 20)**

1. Father of microbiology.
2. Classify bacteria based on temperature requirement.
3. What is Adjuvant? Give two examples.
4. Name two antibiotics that act on the protein synthesis of bacteria.
5. Serological tests for syphilis.
6. Define Agglutination with example.
7. Name four organisms causing meningitis.
8. What are the modes of transmission of HIV?
9. Mention the methods used for cultivating Viruses.
10. Germ tube experiment.

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**February 2012**

**[LA 828]**

**Sub. Code: 4888**

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**First Year – Non – Semester**

**Paper VII – MICROBIOLOGY**

***Q.P. Code : 684888***

**Time : Three hours**

**Maximum : 75 marks**

**Answer ALL questions.**

**I. Elaborate on:**

**(2X15=30)**

1. What is Disinfection? Give a detailed account of the commonly used disinfectants.
2. Describe the mode of transmission and laboratory diagnosis of the human immunodeficiency virus infection.

**II. Write notes on :**

**(5X5= 25)**

1. Mantoux test.
2. Passive immunity.
3. Biomedical waste management.
4. Urinary Tract infection.
5. Malaria.

**III. Short Answer:**

**(10X 2 = 20)**

1. Gram's staining.
2. Pathogenic Gram positive bacilli.
3. Food borne infections.
4. Anti-tuberculosis drugs.
5. Lepromin test.
6. BCG Vaccine.
7. Streptococcal infections.
8. Serological tests for syphilis.
9. Filariasis.
10. Yeast-like Fungi.

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[LB 828]

AUGUST 2012

Sub. Code: 4888

**FIRST YEAR P.B.B.Sc (NURSING) EXAM**

**Paper VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time : Three hours**

**Maximum:100 marks**

**(180 Min) Answer ALL questions in the same order.**

**I. Elaborate on:**

**Pages Time Marks  
(Max.) (Max.) (Max.)**

- |  |    |    |    |
|--|----|----|----|
| 1. Define Infection. Add a note on its classification, sources and mode of transmission.     | 19 | 33 | 20 |
| 2. Give the morphology, cultural characters, pathogenicity and lab diagnosis of Candidiasis. | 19 | 33 | 20 |

**II. Write notes on:**

- |                                   |   |   |   |
|-----------------------------------|---|---|---|
| 1. Gram staining.                 | 3 | 8 | 5 |
| 2. Widal test.                    | 3 | 8 | 5 |
| 3. Contribution of Louis Pasteur. | 3 | 8 | 5 |
| 4. Koch's Postulates.             | 3 | 8 | 5 |
| 5. Active Immunity                | 3 | 8 | 5 |
| 6. Hot Air Oven                   | 3 | 8 | 5 |
| 7. Dermatophytes                  | 3 | 8 | 5 |
| 8. Bacterial Flagella             | 3 | 8 | 5 |

**III. Short Answers on:**

- |   |   |   |   |
|---|---|---|---|
| 1. Define Immunity.   | 1 | 5 | 2 |
| 2. Hanging drop preparation.                                  | 1 | 5 | 2 |
| 3. Mantoux test.  | 1 | 5 | 2 |
| 4. List out the four species of parasite that causes Malaria. | 1 | 5 | 2 |
| 5. Give four properties of a Chemical disinfectant.           | 1 | 5 | 2 |
| 6. Bio-medical waste management.                              | 1 | 5 | 2 |
| 7. Pathogenicity of Staphylococcus pyogenes.                  | 1 | 5 | 2 |
| 8. Draw a neat diagram of a typical bacterial cell.           | 1 | 5 | 2 |
| 9. Classify bacteria based on Temperature.                    | 1 | 5 | 2 |
| 10. List out the general properties of virus.                 | 1 | 5 | 2 |

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[LC 828]

FEBRUARY 2013

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**First Year – Non – Semester**

**Paper VII – MICROBIOLOGY**

***Q.P. Code : 684888***

**Time : Three hours  
(180 Min)**

**Maximum : 100 marks**

**I. Essays:**

**(2x20=40)**

1. List the organisms causing acute diarrhoeal diseases and describe the laboratory diagnosis of cholera
2. Name the various antigen- antibody reactions and describe the principle and application of precipitation reaction

**II. Write Notes on:**

**(8x5=40)**

1. Bacterial cell wall
2. Microfilariae
3. Prophylaxis against tetanus
4. Enrichment media
5. Modes of transmission of hospital acquired infection
6. Enumerate common bacterial organisms causing food poisoning
7. Prophylaxis of polio
8. Contributions of Louis Pasteur

**III. Short Answers on:**

**(10x2=20)**

1. Give two examples of live vaccines and their route of administration
2. Name two diseases caused by arboviruses and their vectors
3. Name two diseases transmitted by blood and blood products
4. Mention two non suppurative complications of streptococcus pyogenes
5. Mention two differences between humoral and cell mediated immunity
6. Define carrier and name two types of carrier
7. Write four differences between plasmodium falciparum and plasmodium vivax
8. Give four methods of moist heat sterilization
9. Write 2 differences between fungi and bacteria
10. Name 4 viruses causing hepatitis and their modes of transmission

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[LD 828]

AUGUST 2013

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING**

**DEGREE EXAMINATION**

**First Year – Non – Semester**

**Paper VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time : Three hours  
(180 Min)**

**Maximum : 100 marks**

**I. Essays:**

**(2x20=40)**

1. Define Sterilization. Classify the various methods of sterilization and add a note on autoclave.
2. Define Nosocomial infection. Add a note on the sources, transmission, causative organisms and prevention.

**II. Write Notes on:**

**(8x5=40)**

1. Contribution of Louis Pasteur
2. Bacterial cell wall
3. Gram stain
4. Disinfectants
5. Define Immunity and classify it
6. Candida albicans
7. Polio vaccine
8. Typhoid Fever

**III. Short Answers on:**

**(10x2=20)**

1. Culture medium
2. Infection
3. Bio-Medical waste management
4. Antigen
5. Food borne diseases
6. Pathogenicity of Staph. aureus
7. HIV - Human Immuno Deficiency virus
8. Pasteurization
9. Vector borne diseases
10. Tuberculosis.

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[LE 828]

FEBRUARY 2014

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING**

**DEGREE EXAMINATION**

**First Year – Non – Semester**

**Paper VII – MICROBIOLOGY**

***Q.P. Code : 684888***

**Time : Three hours  
(180 Min)**

**Maximum : 75 marks**

**I. Elaborate On:**

**(2x15=30)**

1. Write in detail about the life cycle of *Entamoeba histolytica*.
2. Give the morphology, cultural characteristics, pathogenicity and lab diagnosis of *Staphylococcus aureus*.

**II. Write Notes on:**

**(5x5=25)**

1. General properties of viruses.
2. Type – I hypersensitivity.
3. Acid fast staining
4. Pulmonary tuberculosis
5. Superficial mycosis with example.

**III. Short Answer Questions:**

**(10x2=20)**

1. Passive immunity.
2. Pasteurization.
3. *Candida albicans*.
4. Binary fission
5. Nosocomial infection
6. Mantoux test.
7. Influenza virus.
8. Agglutination.
9. Name four live vaccines.
10. Joseph Lister.

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[LF 828]

AUGUST 2014

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION  
FIRST YEAR – NON SEMESTER  
PAPER VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time: Three hours**

**Maximum: 75 marks**

**I. Elaborate On:** (2x15=30)

1. Define Immunity. Add a note on its types.
2. Enumerate organisms causing Urinary tract infection and its laboratory diagnosis.

**II. Write Notes on:** (5x5=25)

1. Contributions of Robert Koch
2. Mode of transmission of Infection
3. Hanging drop preparation
4. List out 5 properties of a chemical disinfectant
5. Hepatitis Virus

**III. Short Answer Questions:** (10x2=20)

1. Negative staining
2. ELISA
3. Structure of Antibody molecule
4. Selective media with an example
5. Pathogenicity of Candida albicans
6. List out four properties of Virus
7. Morphology of HIV
8. Iatrogenic infection
9. DPT vaccine
10. Name two spore forming bacteria

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[LG 828]

FEBRUARY 2015

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION  
FIRST YEAR – NON SEMESTER  
PAPER VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time: Three hours**

**Maximum: 75 marks**

**I. Elaborate on:** (2 x 15 = 30)

1. Briefly discuss about morphology, Pathogenicity and laboratory diagnosis of Salmonella Typhi.
2. Describe the mode of Transmission and laboratory diagnosis of Human Immuno Deficiency virus infection.

**II. Write notes on:** (5 x 5 = 25)

1. Nosocomial infection
2. Biomedical waste Management
3. Carrier and various types
4. Louis Pasteur and its contribution to microbiology
5. Superficial Mycosis

**III. Short answers on:** (10 x 2 = 20)

1. Koch Postulates
2. Tyndallisation
3. Transport Media
4. Immunization
5. Agglutination
6. BCG Vaccine
7. Dermatophytes
8. What is Zoonosis? Give examples
9. Bioterrorism
10. Disinfection

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**POST BASIC BACHELOR OF SCIENCE IN NURSING**

**DEGREE EXAMINATION**

**FIRST YEAR – NON SEMESTER**

**PAPER VII – MICROBIOLOGY**

*Q.P. Code: 684888*

**Time : Three Hours**

**Maximum : 75 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define culture media. Describe various types with examples.
2. Describe the morphology, cultural characteristics pathogenesis and Laboratory diagnosis of Mycobacterium tuberculosis.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Hypersensitivity.
2. Widal test.
3. Antibiotic sensitivity tests.
4. Infections and Various Types.
5. Diphtheria.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Steam under pressure.
2. Traveller Diarrhoea.
3. Bacterial conjugation.
4. Acid fast Staining.
5. Precipitation.
6. Polio vaccines.
7. Black water fever.
8. Syphilis.
9. Yeast like Fungi.
10. Pasteurization.

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[LI 828]

FEBRUARY 2016

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING**

**DEGREE EXAMINATION**

**FIRST YEAR - NON SEMESTER**

**PAPER VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time : Three Hours**

**Maximum : 75 Marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define and classify Hypersensitivity. Describe briefly about Type I reactions.
2. Describe the mode of transmission and laboratory diagnosis of Hepatitis infection.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Malaria.
2. Antigen and Antibody reaction.
3. Robert Koch and its contribution of microbiology.
4. Opportunistic fungal infections.
5. Cholera.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Significant Bacteriuria.
2. Wool Sorter disease.
3. Gram Staining.
4. Mantoux Test.
5. Bacillary Dysentery.
6. Elek gel Test.
7. Filariasis.
8. Botulism.
9. Gonorrhoea.
10. Name four live vaccines.

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[LJ 828]

AUGUST 2016

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION  
FIRST YEAR – NON SEMESTER  
PAPER VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. What are Vaccines? Explain its types and immunization schedule.
2. Write in detail about antibiotics, its classification, and explain microbial drug resistance.

**II. Write notes on:**

**(5 x 5 = 25)**

1. ELISA
2. Gram staining
3. Hepatitis – B
4. Phagocytosis
5. Autoclave.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Name two dermatophytes
2. Carrier
3. Hot air oven
4. Amoebiasis
5. Lymphocytes
6. Spores
7. Transport media
8. Cholera
9. VDRL test
10. Halogen – disinfectant

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[LK 828]

FEBRUARY 2017

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION  
FIRST YEAR – NON SEMESTER  
PAPER VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Write in detail about hospital acquired infections and methods to prevent.
2. Explain humoral immunity. Write about five types of antibodies.

**II. Write notes on:** **(5 x 5 = 25)**

1. Hanging drop method.
2. Terminal disinfection.
3. Type - I Hypersensitivity.
4. Rabies.
5. Dark field microscope.

**III. Short answers on:** **(10 x 2 = 20)**

1. Mesophilic bacteria.
2. Alexander Fleming.
3. Gases used for sterilization.
4. Capsule.
5. Two types of electron microscope.
6. Dengue fever.
7. Widal test.
8. Tetanus toxin.
9. Diagnosis of HIV/AIDS.
10. MMR.

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[LL 828]

AUGUST 2017

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION  
FIRST YEAR – NON SEMESTER  
PAPER VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define Sterilization. Classify the various methods of sterilization and add a note on autoclave.
2. List the organisms causing acute diarrhoeal diseases and describe the laboratory diagnosis of *Vibrio Cholerae*.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Contribution of Louis Pasteur.
2. Bacterial Flagella.
3. Urinary tract infection.
4. *Candida albicans*.
5. Agglutination reaction.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Contribution of Robert Koch.
2. Types of bacterial staining methods.
3. Pasteurization.
4. ELISA.
5. Give two examples of live vaccines and their route of administration.
6. Mention two non-suppurative complications of *Streptococcus pyogenes*.
7. List out the four species of parasite that causes Malaria.
8. Bio-medical waste management.
9. What are the modes of transmission of HIV?
10. Name two organisms causing bacteraemia.

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[LM 828]

FEBRUARY 2018

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION  
FIRST YEAR – NON SEMESTER  
PAPER VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. What is disinfection? Write in detail about chemical method of sterilization.
2. What are the types of microscopes? Explain bright field microscope and Gram staining.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Delayed hypersensitivity.
2. Laboratory diagnosis of fungal infection.
3. Robert Koch.
4. Amoebiasis.
5. Antibodies and its types.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Anaerobic bacteria.
2. Vector.
3. Flagella.
4. Incineration.
5. Passive immunity.
6. Causative agent of Typhoid.
7. Macrophages.
8. Pasteurization.
9. Live vaccines.
10. Two opportunistic fungal infections.

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[LN 828]

AUGUST 2018

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**FIRST YEAR – NON SEMESTER**

**PAPER VII – MICROBIOLOGY**

*Q.P. Code : 684888*

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define sterilization and discuss in detail moist heat sterilization.
2. Describe the pathogenesis, Lab diagnosis and prophylaxis of *Corynebacterium diphtheriae*.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Cryptococcosis.
2. Robert Koch.
3. ELISA.
4. Lab diagnosis of syphilis.
5. Grams Staining.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Transport media.
2. Carriers.
3. Anaphylaxis.
4. Endospore.
5. Agglutination.
6. Name two diseases caused by arboviruses and their vectors.
7. Name four viruses causing hepatitis and their modes of transmission.
8. Pasteurization.
9. MMR.
10. Name four nematode infecting man.

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[LO 828]

FEBRUARY 2019

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**FIRST YEAR – NON SEMESTER**

**PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:** (2 x 15 = 30)

1. Explain antigen, antibody and antigen antibody reactions with examples.
2. Define Nosocomial infection. Add a note on the sources, transmission, causative organisms and prevention.

**II. Write notes on:** (5 x 5 = 25)

1. Bacterial cell wall.
2. Acid fast staining.
3. Malaria.
4. Dermatophytes.
5. Precipitation reaction.

**III. Short answers on:** (10 x 2 = 20)

1. Hyper sensitivity.
2. Diphtheria.
3. Enriched medium.
4. Name two spore forming bacteria.
5. Selective media with an example.
6. BCG vaccine.
7. What is zoonosis? Give two examples.
8. Mantoux Test.
9. Immunization.
10. Food borne disease.

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[LP 828]

AUGUST 2019

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**FIRST YEAR – NON SEMESTER**

**PAPER VII – MICROBIOLOGY**

*Q.P. Code: 684888*

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Write briefly the life cycle of *Plasmodium*.
2. Define infection? Write the types, source and transmission of infection.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Hanging drop method.
2. Autoclave.
3. Explain spore and types.
4. Influenza virus.
5. *Candida albicans*.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Plasmid.
2. Parasite.
3. Dimorphic fungus.
4. Negative staining.
5. Cold sterilization.
6. Kala-azar.
7. Botulism.
8. Mesophilic Bacteria.
9. Types Flagellum.
10. Joseph Lister.

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[LQ 828]

FEBRUARY 2020

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**FIRST YEAR – NON SEMESTER**

**PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:** (2 x 15 = 30)

1. Define hypersensitivity. Classify hypersensitivity. Discuss in detail type I hypersensitivity.
2. Describe the pathogenesis and lab diagnosis of *Mycobacterium tuberculosis*.

**II. Write notes on:** (5 x 5 = 25)

1. Elisa.
2. Acquired Immunity.
3. Gram's stain.
4. Passive immunity.
5. Pathogenesis of *Salmonella typhi*.

**III. Short answers on:** (10 x 2 = 20)

1. Name any two opportunistic fungi.
2. Give two important functions of bacterial capsule.
3. DPT vaccine.
4. List four complications of typhoid.
5. Name two auto-immune disease.
6. Enumerate two diseases caused by *Staphylococcus aureus*.
7. Name two skin infection caused by *Streptococcus pyogenes*.
8. Mention four species of genus *Plasmodium* causing malaria.
9. Widal test.
10. ASO titre.

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[PBBSCN 0321]

MARCH 2021  
(AUGUST 2020 SESSION)

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**FIRST YEAR – NON SEMESTER**

**PAPER VII – MICROBIOLOGY**

*Q.P. Code: 684888*

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Life cycle of *Entamoeba histolytica*.
2. What is hypersensitivity? Briefly explain the types.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Polio virus.
2. IgA.
3. Innate Immunity.
4. Laboratory diagnosis of typhoid fever.
5. Aspergillosis.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Generation Time of Bacteria.
2. Name four chemical agents used in sterilization.
3. Pili.
4. Precipitation.
5. Millionaire molecule.
6. What is epidemic disease, give examples?
7. Name two live vaccines.
8. Systemic Mycosis.
9. Quellung Reaction.
10. Arthropod - borne diseases.

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[PBBSCN 0921]

SEPTEMBER 2021  
(FEBRUARY 2021 SESSION)

Sub. Code: 4888

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**FIRST YEAR – NON SEMESTER**

**PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Briefly describe the pathogenesis and laboratory diagnosis of staphylococcus aureus.
2. Write brief notes on immunity and types.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Difference between prokaryotes and eukaryotes.
2. Mycobacterium tuberculosis.
3. Hydatid cyst.
4. Rabies virus.
5. Tetanus.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Haptans.
2. Flagella.
3. Anaerobic media with example.
4. Write two contributions of Louis Pasteur.
5. Name four Filters used in sterilization.
6. Name four fungus causing superficial mycosis.
7. Tyndallisation.
8. Chemotrophs.
9. Name two killed vaccines.
10. Black water fever.

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THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[PBBSCN 0422]

APRIL 2022  
(For August 2021 Session Examination)

Sub. Code: 4888

POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION

(Regulations for candidates admitted from 2010-2011 Session onwards)

FIRST YEAR (Regular)

**PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define Infection. Write in detail about Types of Infection. Add note on its sources and Mode of Transmission.
2. Systemic Mycosis. Write in detail about opportunistic Mycosis.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Normal Flora.
2. Active Immunity.
3. Electron microscope.
4. Types of Bacterial Spores.
5. Lactophenol cotton blue mount.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Widal test.
2. General properties of virus.
3. Congenital Rubella.
4. Write any Three Filter name.
5. Enumerate Two Organisms causing UTI Infection.
6. Germ tube experiment.
7. Scope of microbiology.
8. Yeast-like-fungi.
9. Hapten.
10. Incineration.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[PBBSCN 0722]**

**JULY 2022  
(FEBRUARY 2022 SESSION)**

**Sub. Code: 4888**

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**(Regulations for candidates admitted from 2010-2011 Session onwards)**

**FIRST YEAR  
PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Describe the pathogenesis, lab diagnosis and prophylaxis of syphilis.
2. Define Hypersensitivity. Explain Type II Hypersensitivity.

**II. Write notes on:** **(5 x 5 = 25)**

1. Contribution of Louis Pasteur.
2. Dark field microscope.
3. Moist heat sterilization.
4. Bio medical sterilization.
5. Opportunistic waste, segregation.

**III. Short answers on:** **(10 x 2 = 20)**

1. Hapten.
2. Pili.
3. Agglutination.
4. Name two transport media.
5. Name two organisms causing urinary tract infection.
6. Negative staining.
7. Filariasis causing organisms.
8. Adjuvant.
9. Black water fever.
10. Name four live vaccines.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[PBBSCN 1122]**

**NOVEMBER 2022  
(AUGUST 2022 EXAM SESSION)**

**Sub. Code: 4888**

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**(Regulations for candidates admitted from 2010-2011 Session onwards)**

**FIRST YEAR**

**PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define immunoglobulin. Explain types of immunoglobulin.
2. Describe the pathogenesis, lab diagnosis and prophylaxis of Vibrio cholera.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Contribution of Alexander Fleming.
2. Bacterial conjugation.
3. Nosocomial infection.
4. Electron microscope.
5. Candida albicans.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Pasteurization.
2. Endospore.
3. Mesophilic bacteria.
4. Name four spore forming bacteria.
5. ELISA.
6. Name four viruses causing hepatitis.
7. VDRL-test.
8. Four skin disinfectants.
9. Amoebiasis.
10. Prophylaxis.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[PBBSCN 0523]**

**MAY 2023  
(FEBRUARY 2023 EXAM SESSION)**

**Sub. Code: 4888**

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**(Regulations for candidates admitted from 2010-2011 Session onwards)**

**FIRST YEAR**

**PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define Immunity. Add a detailed note on types of Immunity.
2. Write in detail the morphology, pathogenesis, diagnosis and prophylaxis of Hepatitis B Virus.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Flagella.
2. WIDAL Test.
3. Vaccines.
4. Diphtheria toxin mechanism.
5. Round worm.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Joseph Lister.
2. Mesophilic bacteria.
3. Acid fast staining.
4. Name any two spore forming bacteria.
5. List of organism causing Urinary tract infection.
6. Pasteurization.
7. Non suppurative complications of Streptococcus Pyogenes.
8. Name the different classes of antibodies.
9. Germ Tube Test.
10. Normal flora.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[PBBSCN 1123]**

**NOVEMBER 2023  
(AUGUST 2023 EXAM SESSION)**

**Sub. Code: 4888**

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**(Regulations for candidates admitted from 2010-2011 Session onwards)**

**FIRST YEAR**

**PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define Sterilization and classify its different types. Write a detail note on Moist Heat Sterilization.
2. Write about the morphology, laboratory diagnosis, pathogenesis and treatment of Staphylococcus Aureus in detail.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Culture media.
2. Coagulase test.
3. HIV.
4. Hypersensitivity.
5. Black Water Fever.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Robert Koch.
2. Enriched media.
3. Convalescent carrier.
4. Define Hospital Acquired Infection.
5. Give four examples for chemical disinfectant.
6. Define Vaccines and its types.
7. Name two opportunistic fungi.
8. Define agglutination reaction.
9. Hide Porter's disease.
10. Name four general properties of Viruses.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[PBBSCN 0224]**

**FEBRUARY 2024**

**Sub. Code: 4888**

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**(Regulations for candidates admitted from 2010-2011 Session onwards)**

**FIRST YEAR**

**PAPER VII – MICROBIOLOGY**

***Q.P. Code: 684888***

**Time : Three Hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define and classify sterilization. Describe the various methods of Dry heat sterilization.
2. Define Enteric fever and write in details of the morphology, cultural characters, pathogenesis and lab diagnosis of Salmonella typhi.

**II. Write notes on:**

**(5 x 5 = 25)**

1. Write briefly on Small pox and discuss the prophylaxis.
2. Explain the features and infection mechanism of the disease Penicilliosis.
3. Write a short note on Bacterial cell Anatomy.
4. Black Water Fever.
5. Write about the contributions of Louis Pasteur to the development of bacteriology.

**III. Short answers on:**

**(10 x 2 = 20)**

1. What is Maduromycosis?
2. What is growth curve? How many phases are there?
3. Write the Koch Postulates.
4. How do you collect sample for anaerobic culture?
5. Fever blister.
6. Selective medium for Mycobacterium tuberculosis.
7. Describe the hydatid cyst.
8. Mention the organisms causing food poisoning.
9. ASO titre.
10. Give two examples of Latent viral infection.

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