AUGUST 2007

[KR 1014] **Sub. Code : 4705**

B.Sc. (Nursing) DEGREE EXAMINATION.

(New Regulation for the candidates admitted from 2006–07 onwards)

First Year

Paper V — 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.

I. Essay :

(1) Discuss various chemical used as disinfectants. (15)

(2) Define and classify hypersensitivity and write about anaphylaxis in detail. (2 + 7 + 6)

II. Short notes : (6 × 5 = 30)

(a) Contributions of Louis Pasteur

(b) Test for disinfectants

(c) WIDAL test.

(d) Tetanus

(e) Normal flora

(f) Polio.

FEBRUARY 2008

[KS 1014] **Sub. Code : 4705**

B.Sc. (Nursing) DEGREE EXAMINATION.

(New Regulation for the candidates admitted from 2006-07 onwards)

First Year

Paper V — MICROBIOLOGY

Q.P. Code : 664705

Time : Three hours Maximum : 75 marks

Theory : Two hours and forty five minutes Theory : 60 marks

M.C.Q. : Fifteen minutes M.C.Q. : 15 marks

Answer ALL questions.

I. Essay questions :

(1) Write in detail about Hospital acquired infection and Hospital infection control programme. (15)

(2) Classify different types of sterilization. Write in detail about moist heat sterilization. (15)

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

(a) Louis Pasteur

(b) Flagella

(c) Transport media

(d) Candida albicans

(e) Type IV Hypersensitivity

(f) Polio vaccine.

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[KT 1014] **Sub. Code : 4705**

B.Sc. (Nursing) DEGREE EXAMINATION.

(New Regulations for the candidates admitted from 2006–07 onwards)

First Year

Paper V — MICROBIOLOGY

Q.P. Code : 664705

Time : Three hours Maximum : 75 marks

Answer ALL questions.

I. Essay : $(2 \times 15 = 30)$

1. (a) Classify vaccines (5)

(b) Describe immunisation schedule. (5)

(c) Write about BCG Vaccine. (5)

2. Classify Bacteria, write in detail about various structures of Bacterial cell. (15)

II. Write short notes on : $(5 \times 5 = 25)$

1. Hospital Acquired Infections.

2. Grams Staining.

3. Antibodies.

4. Rabies Vaccines.

5. ELISA Test.

III. Short answer questions : $(10 \times 2 = 20)$

1. Write any two contributions of Louis Pasteur.

2. What is iso immunization?

3. Define Nosocomial infections.

4. Mention contributions of Edward Jenner.

5. Mention two uses of Pasteurization.

6. List the diagnositic methods for tuberculosis.

7. Mention two bacteria causing gas gangrene.

8. Give two examples of latent viral infection.

9. What are the target cells and the receptors for HIV?

10. Name any four oppurtunistic Fungi.

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February 2009

[KU 1014] **Sub. Code: 4705**

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)
First Year
Paper V – MICROBIOLOGY
Q.P. Code : 664705

Time : Three hours **Maximum : 75 marks**

Answer All questions.

I. Essays: **(2x15=30)**

1. Define hypersensitivity. Classify Hypersensitivity. Discuss in detail type IV hypersensitivity.

2. Discuss in detail the morphology, Pathogenesis and lab diagnosis of streptococci.

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

1. Immunization schedule.
2. Hospital acquired infections.
3. Sexually transmitted diseases.
4. Ascaris worm.
5. Flagella.

III. Short Answer Questions: **(10x 2 = 20)**

1. Terminal disinfection.
2. Significant bacteriuria.
3. Chickenpox.
4. Contributions of Robert Koch..
5. MMR.
6. Auto infections in enterobiasis.
7. Define normal flora.
8. What is a vaccine?
9. What is enteric fever?
10. Hydrophobia.

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August 2009

[KV 1014] **Sub. Code: 4705**

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)
First Year
Paper V – MICROBIOLOGY
Q.P. Code : 664705

Time : Three hours **Maximum : 75 marks**

Answer All questions.

I. Essays: **(2x15=30)**

1. Classify various methods of sterilization. Write in detail about dry heat sterilization.

2. Name the gram positive cocci. Describe in detail about infection caused by staphyllococcus aureus.

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

1. Rabies virus.
2. Aspergillus fumigatus.
3. Biomedical waste management.
4. Hypersensitivity – Type I.
5. Immunization schedule.

III. Short Answer Questions: **(10x 2 = 20)**

1. Write the Koch's postulates.
2. Give two important functions of bacterial capsule.
3. What is zoonosis? Give two examples.
4. List four complications of diphtheria.
5. Enumerate four live vaccines.
6. Give two examples of type III hypersensitivity.
7. Name two auto immune disease.
8. Enumerate two diseases produced by candida albicans.
9. Name two fungi causing skin infection.
10. Mention four species of genus plasmodia causing malaria.

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February 2010

[KW 1014] **Sub. Code: 4705**

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)
First Year
Paper V – MICROBIOLOGY
Q.P. Code : 664705

Time : Three hours **Maximum : 75 marks**

Answer All questions.

I. Essays: **(2x15=30)**

1. Define sterilization and discuss in detail moist heat sterilization.

2. List the organisms causing enteric fever. Discuss in detail the lab diagnosis of typhoid fever.

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

1. Biomedical waste management.
2. Transport media.
3. Hookworm.
4. VDRL test.
5. Hepatitis B virus.

III. Short Answer Questions: **(10x 2 = 20)**

1. Give two important functions of bacterial Pili.
2. Mention two gaseous agents used in disinfection.
3. Mention any two types of filters and their uses.
4. Define cross infection and sub clinical infection.
5. Mention four different chemical methods of sterilization.
6. Mention any two Zoonotic diseases with their causative agent.
7. Mention two skin infections produced by streptococcus pyogenes.
8. Enumerate four killed vaccines.
9. Give two examples of Type IV hypersensitivity.
10. Name two fungal infections common in HIV.

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February 2011

[KY 1014] **Sub. Code: 4705**

B.Sc (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-07 onwards)

First Year
Paper V – MICROBIOLOGY

Q.P. Code : 664705

Time : Three hours **Maximum : 75 marks**

Answer All questions.

I. Essays: **(2X15=30)**

1. Define Sterilization. Discuss in detail the different methods of dry heat sterilization.

2. Classify hypersensitivity. Discuss in detail Type I hypersensitivity.

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

1. Bacterial growth curve.
2. Flagella.
3. Candida.
4. Widal Test.
5. Hospital infection control programme.

III. Short Answer Questions: **(10X 2 = 20)**

1. List the characteristics of passive Immunity.
2. Define precipitation. Give examples.
3. List the contributions of Joseph Lister.
4. Mention four species of plasmodia causing malaria.
5. Name two fungi casing skin infection.
6. Give two example of Type III hypersensitivity.
7. Mention two antiseptic solutions with their recommended concentration.
8. Enumerate four intestinal nematode.
9. Name two diseases acquired through the bite of Aedes aegypti mosquito.
10. List four complication of Diphtheria.

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August 2011

[KZ 1014] **Sub. Code: 4705**

B.Sc (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-07 onwards)

First Year
Paper V – MICROBIOLOGY
Q.P. Code : 664705

Time : Three hours **Maximum : 100 marks**

Answer All questions.

I. Essays: **(2X20=40)**

1. Write in detail about the bacterial anatomy with suitable diagram.

2. Name the bacterial agents causing pyrexia of unknown origin. Write pathogenesis and laboratory diagnosis of enteric fever.

II. Write Short Notes on : **(8X 5 = 40)**

1. Laboratory diagnosis of urinary tract infection.
2. Bacterial capsule.
3. Hook worm infestation.
4. Protocol for safe blood transfusion.
5. Prophylaxis of Rabies.
6. Immunization schedule.
7. Swine flu.
8. Toxic shock syndrome.

III. Short Answer Questions: **(10X 2 = 20)**

1. Koch's postulates.
2. Fluorescent microscope.
3. Grains stain.
4. Tantalization.
5. MMR.
6. Dengue fever.
7. List four opportunistic infections typically associated with HIV infection.
8. Malignant pustule.
9. BCG.
10. Name four dermatophytic fungi.

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February 2012

[LA 1014] **Sub. Code: 4705**

B.Sc (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-07 onwards)
First Year
Paper V – MICROBIOLOGY
Q.P. Code : 664705

Time : Three hours **Maximum : 75 marks**

Answer ALL questions.

I. Elaborate on : **(2X15=30)**

1. Classify Mycobacteria. Write in detail the morphology, cultural characters, pathogenesis and Lab diagnosis of Mycobacterium Tuberculosis.

2. List the bacteria that cause Diarrhoea. Discuss in detail the lab diagnosis of Cholera.

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

1. Tyndalisation.
2. Acid fast staining.
3. Round worm.
4. Herpes virus.
5. Hospital borne Infections.

III. Short Answer: **(10X 2 = 20)**

1. Mention the Toxins produced by Streptococcus pyogenes.
2. Enumerate four Live vaccines.
3. What is Zoonosis? Give two examples.
4. Define Agglutination. Give examples.
5. List the characteristics of Active immunity.
6. Name two systemic fungal infections.
7. Mention four stages of life cycle of Plasmodium vivax.
8. Mention four different chemical methods of Sterilization.
9. Enumerate two blood flukes.
10. Name four viruses causing Haemorrhagic fever.

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[LB 1014] **AUGUST 2012** **Sub. Code: 4705**

FIRST YEAR B.Sc – NURSING EXAM

Paper V – MICROBIOLOGY

Q.P. Code : 664705

Time : Three hours **Maximum : 100 marks**

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

I. Elaborate on:	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. Define Sterilisation. List the methods of Sterilisation. Write in detail about moist heat sterilization.	19	33	20
2. Define and classify Hypersensitivity. Write about anaphylaxis in detail.	19	33	20
II. Write Notes on:			
1. VDRL test.	3	8	5
2. Universal precautions.	3	8	5
3. BCG Vaccine.	3	8	5
4. Hospital waste Treatment and disposal.	3	8	5
5. Black water fever.	3	8	5
6. Flagella.	3	8	5
7. Coagulase.	3	8	5
8. Dermatophytes.	3	8	5
III. Short Answers on:			
1. Pasteurisation.	1	5	2
2. Koch postulates.	1	5	2
3. Nosocomial infections.	1	5	2
4. Name the various classes of Immunoglobulins.	1	5	2
5. Name four general properties of viruses.	1	5	2
6. Name four organisms causing pyogenic meningitis.	1	5	2
7. Name two opportunistic fungi.	1	5	2
8. Enumerate four intestinal nematodes.	1	5	2
9. Candida albicans.	1	5	2
10. List four organisms causing Urinary tract infections.	1	5	2

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