

August-2008

[KT 1019]

Sub. Code : 4718

B.Sc. (Nursing) DEGREE EXAMINATION.

New Regulations for candidates admitted from 2006-07
onwards.

Second Year

Paper III — PHARMACOLOGY, PATHOLOGY,
GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

SECTION A

PHARMACOLOGY

1. Essay : (1 × 15 = 15)
 - (a) Enumerate various routes of administration of drugs. (5)
 - (b) Write the advantages of parenteral route of administration. (5)
 - (c) Describe the role of nurses in drug administration. (5)

II. Write short notes on : (3 × 5 = 15)

1. Bronchodilators
2. Diazepam
3. Morphine.

III. Short answer questions : (4 × 2 = 8)

1. Drug of choice for congestive cardiac failure.
2. Two uses of rifampicin.
3. Mention two drugs used in Angina pectoris.
4. Name two antiviral drugs.

SECTION B

PATHOLOGY AND GENETICS

PATHOLOGY

I. Essay : (1 × 15 = 15)

1. Write briefly about myocardial infarction and laboratory investigations for myocardial infarction.

II. Write short notes on : (2 × 5 = 10)

1. Healing of a clean surgical wound.
2. Fate of thrombus.

GENETICS

I. Write short notes on : (2 × 5 = 10)

1. Down's Syndrome.
2. Prenatal diagnosis.

II. Short answer question : (1 × 2 = 2)

1. Mention two differences between meiosis and mitosis.
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February 2009

[KU 1019]

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Second Year

Paper III – PHARMACOLOGY, PATHOLOGY, GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION – A
(PHARMACOLOGY)

I. Essays: (1 x 15 = 15)

1. a) Define antibiotics. (2)
- b) Describe the classification of sulphonamides. (3)
- c) Write in detail about the pharmacological action and nurse's responsibility of sulphonamides group of drugs side effects. (10)

II. Write Short Notes on : (3 x 5 = 15)

1. Antimalarial drugs.
2. Anatacids.
3. Non-steroidal anti inflammatory drugs.

III. Short Answer Questions: (4 x 2 = 8)

1. State any 4 antileprosy drugs.
2. Name any four common side effects of antihistamine drugs.
3. Name any two nurse's responsibility before administering oral hypoglycemic agents.
4. What are Bronchodilators?

SECTION – B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Essay: (1 x 15 = 15)

1. Etiopathogenesis of peptic ulcer and complications of the disease.

II. Write Short Notes on : (2 x 5 = 10)

1. Necrosis.
2. Difference between benign and malignant tumours.

GENETICS

I. Write Short Notes on : (2 x 5 = 10)

1. Genetic counselling.
2. Blood groups.

II. Short Answer Questions: (1 x 2 = 2)

1. Mention two causes of congenital abnormalities.

August 2009

[KV 1019]

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Q.P. Code : 664718

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION – A
(PHARMACOLOGY)

I. Essays: (1 x 15 = 15)

1. a) What are the factors affecting drug absorption? (5)
- b) First pass metabolism. (5)
- c) Describe the role of nurses in drug administration. (5)

II. Write Short Notes on : (3 x 5 = 15)

1. Dignoxin.
2. Ketamine.
3. Pyrazinamide.

III. Short Answer Questions: (4 x 2 = 8)

1. Two uses of aspirin.
2. Mention two oral hypoglycemic drugs.
3. Name two antifibrinolytic drugs.
4. Name two adverse affects of aminoglycoside antibiotics.

SECTION – B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Essay: (1 x 15 = 15)

1. Define Jaundice. Mention some of the causes and laboratory findings seen in a jaundiced patient. Write briefly about hepatitis. B virus induced liver disease.

II. Write Short Notes on : (2 x 5 = 10)

1. Infective Endocarditis.
2. Fate of thrombus

GENETICS

I. Write Short Notes on : (2 x 5 = 10)

1. Erythroblastosis foetalis. (Hemolytic disease of the newborn).
2. Define mutation. Mention some of the causes of mutation.

II. Short Answer Questions: (1 x 2 = 2)

1. Name two screening tests for detecting congenital abnormalities.

February 2010

[KW 1019]

Sub. Code: 4718

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)
Second Year

Paper III – PHARMACOLOGY, PATHOLOGY, GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION – A
(PHARMACOLOGY)

I. Essays: (1 x 15 = 15)

1. a) Classify non steroidal anti inflammatory drugs (NSAIDS).
- b) Describe the pharmacological actions and therapeutic uses of paracetamol.

II. Write Short Notes on : (3 x 5 =15)

1. Oral contraceptives.
2. Thiopentone sodium.
3. Metronidazole.

III. Short Answer Questions: (4 x 2 =8)

1. Two uses of rifampicin.
2. Two uses of Acyclovir.
3. Enumerate two anti malarial drugs.
4. Two advantages of Intra venous route of administration of drugs.

SECTION – B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Essay: (1 x 15 = 15)

1. What is the cause for tuberculosis? Write in detail about mode of transmission and types of tuberculosis.

II. Write Short Notes on: (2 x 5 = 10)

1. Rheumatic fever.
2. Gangrene.

GENETICS

I. Write Short Notes on: (2 x 5 = 10)

1. Chromosomal aberration.
2. Relationship between maternal nutrition and foetal health. Mention the birth defects due to maternal folic acid deficiency.

II. Short Answer Questions: (1 x 2 = 2)

1. Mention two autosomal dominant and two autosomal recessive disorders

February 2011

[KY 1019]

Sub. Code: 4718

B.Sc (Nursing) DEGREE EXAMINATION

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

Second Year

Paper III – PHARMACOLOGY, PATHOLOGY, GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION A

(PHARMACOLOGY)

I. Essay: (1X15=15)

1. a) What are anti metabolites?
- b) What is the mechanism of action and pharmacological actions of it?
- c) What are the adverse effects and nurses responsibility for the same?

II. Write Short Notes on : (3X 5 =15)

1. Management of Amoebiasis.
2. Complications of Diuretic therapy.
3. Broncho dilators.

III. Short Answer Questions: (4X 2 =8)

1. What is drug dependence
2. What is used for reversal of Warfarin?
3. Name any four side effects of anti cancerous drugs in G.I system.
4. What is Teratogen? Give examples.

SECTION B

(PATHOLOGY AND GENETICS)

PATHOLOGY

I. Essay: (1X15=15)

1. Etiopathogenesis and laboratory findings in a case of Nephrotic syndrome.

II. Write Short Notes on : (2X 5 =10)

1. Bronchiectasis.
2. Wound healing by primary intension.

GENETICS

I. Write Short Notes on : (2X 5 =10)

1. External agents affecting embryogenesis.
2. Turner's syndrome.

II. Short Answer Questions: (1X 2 =2)

1. Name two causes of congenital anomaly.

February 2012

[LA 1019]

Sub. Code: 4718

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)

Second Year

Paper III – PHARMACOLOGY, PATHOLOGY, GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION A

(PHARMACOLOGY)

I. Elaborate on: (1X15=15)

1. a) List the various Routes of Drug administration with examples.
- b) Write four advantages of oral and intravenous Route.
- c) Write eight factors that affect the action of Drugs.

II. Write notes on : (3X 5 =15)

1. Drugs of Bronchial asthma.
2. Drugs used in Hypertension.
3. Therapeutic uses of Aspirin.

III. Short Answer: (4X 2 =8)

1. Name two drugs used in Malaria.
2. Name first line anti Tuberculosis drug.
3. Name two drugs used in Peptic ulcer.
4. Name two diuretics with Mechanism of action.

SECTION B

(PATHOLOGY AND GENETICS)

PATHOLOGY

I. Elaborate on: (1X15=15)

1. Define Jaundice. Mention some of the causes and laboratory findings seen in a jaundiced patient. Write briefly about Hepatitis B.

II. Write notes on : (2X 5 =10)

1. Infective Endocarditis.
2. Fate of a thrombus.

GENETICS

I. Write notes on : (2X 5 =10)

1. Down syndrome.
2. Prenatal diagnosis.

II. Short Answer: (1X 2 =2)

1. Mention two differences between mitosis and meiosis.

[LB 1019]

AUGUST 2012

Sub. Code: 4718

Second Year B.Sc – NURSING EXAM

Paper III – (PHARMACOLOGY, PATHOLOGY AND GENETICS)

Q.P. Code : 664718

Time : Three hours

Maximum : 100 marks

(180 Min)

Answer ALL questions in the same order.

Answer Section A and Section B Separately

SECTION A

(PHARMACOLOGY)

I. Elaborate on:

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

- | | | | |
|---|----|----|----|
| 1. a. Enumerate Antihistaminics. | 19 | 33 | 20 |
| b. Discuss their pharmacological actions, adverse effects and therapeutic uses. | | | |

II. Write Notes on:

- | | | | |
|----------------|---|---|----|
| 1. Antacids | 3 | 8 | 5. |
| 2. Rifampicin. | 3 | 8 | 5 |
| 3. Lignocaine. | 3 | 8 | 5 |
| 4. Diuretics | 3 | 8 | 5 |

III. Short Answers on:

- | | | | |
|--|---|---|---|
| 1. Mention the parenteral routes of drug administration. | 1 | 5 | 2 |
| 2. Enumerate any 4 oral hypoglycemic drugs. | 1 | 5 | 2 |
| 3. Mention 2 uses of diazepam. | 1 | 5 | 2 |
| 4. Mention 4 uses of aspirin (ASPIRIN). | 1 | 5 | 2 |
| 5. What is placebo? | 1 | 5 | 2 |

SECTION B

(PATHOLOGY AND GENETICS)

I. Elaborate on:

19 33 20

1. Define Neoplasia. Discuss in detail about the differences between benign and malignant neoplasms.

II. Write Notes on:

- | | | | |
|-------------------|---|---|---|
| 1. Typhoid Fever. | 3 | 8 | 5 |
| 2. Dry Gangrene. | 3 | 8 | 5 |

GENETICS

I. Write Notes on:

- | | | | |
|-------------------------|---|---|---|
| 1. Genetic counselling. | 3 | 8 | 5 |
| 2. Blood groups. | 3 | 8 | 5 |

II. Short Answers on:

- | | | | |
|-----------------------|---|---|---|
| 1. Define Mutation. | 1 | 5 | 2 |
| 2. Define genetics | 1 | 5 | 2 |
| 3. Nucleotide | 1 | 5 | 2 |
| 4. Prenatal diagnosis | 1 | 5 | 2 |
| 5. Euchromatin | 1 | 5 | 2 |

[LC 1019]

FEBRUARY 2013

Sub. Code: 4718

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)

Second Year

Paper III – PHARMACOLOGY, PATHOLOGY, GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 100 marks

Answer Section A and Section B SEPARATELY.

SECTION A
(PHARMACOLOGY)

I. Essay: (1X20=20)

1. a) Classify the drugs used in treatment of peptic ulcer
- b) Discuss the pharmacological actions and adverse effects of ranitidine and omeprazole

II. Write Short Notes on : (4X 5 =20)

1. Metformin
2. Paracetamol]
3. Succinylcholine
4. Antiplatelet drugs

III. Short Answer Questions: (5X 2 =10)

1. Prodrug
2. Teratogenicity
3. Write a few side effects of cetirizine
4. Mention few side effects of Warfarin
5. Mention a few side effects of aspirin

SECTION B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Essay: (1X20=20)

1. Discuss the steps involved in wound healing

II. Write Short Notes on : (2X 5 =10)

1. Types of necrosis
2. Ghon complex

GENETICS

I. Write Short Notes on : (2X 5 =10)

1. Blood group systems .
2. Structural chromosomal abnormalities.

II. Short Answer Questions: (5X 2 =10)

1. Deletion in chromosomes
2. Prenatal genetic analysis
3. Name 2 methods for detection of genetic alterations
4. Mention 2 features of Down syndrome
5. Define genomics

[LD 1019]

AUGUST 2013

Sub. Code: 4718

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)

Second Year

Paper III – PHARMACOLOGY, PATHOLOGY AND GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 100 marks

Answer Section A and Section B SEPARATELY

SECTION A

(PHARMACOLOGY)

I. Essay:

(1X20=20)

1. a) Classify anti-epileptic drugs.
b) Discuss the pharmacological actions, adverse effects and therapeutic uses of phenytoin

II. Write Short Notes on :

(4X 5 =20)

1. Atropine Derivatives
2. Therapeutic uses of Beta Blockers
3. Insulin preparations
4. Drug therapy in Myocardial infarction

III. Short Answer Questions:

(5X 2 =10)

1. Define Tachyphylaxis
2. Name 4 analgesic drugs
3. Mention toxicities of amino glycosides
4. Name 4 drugs used in Migraine
5. Name 4 antimalarial drugs.

SECTION B

(PATHOLOGY AND GENETICS)

PATHOLOGY

I. Essay:

(1X20=20)

1. Write the classification, lab diagnosis and complications of Diabetes mellitus.

II. Write Short Notes on :

(2X 5 =10)

1. Renal edema
2. Wound healing

GENETICS

II. Write Short Notes on :

(2X 5 =10)

3. Down Syndrome
4. Prenatal diagnosis.

III. Short Answer Questions:

(5X 2 =10)

1. Karyotyping
2. Genetic counseling
3. Mention any two recent methods to study chromosomes
4. Mention two autosomal dominant disorders
5. Barr body

[LE 1019]

FEBRUARY 2014

Sub. Code: 4718

B.Sc (Nursing) DEGREE EXAMINATION

Second Year

Paper III – PHARMACOLOGY, PATHOLOGY AND GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 75 marks

Answer Section A and Section B SEPARATELY.

SECTION A - (PHARMACOLOGY)

I. Elaborate on: (1X15=15)

1. a) Classify antihypertensive drugs
- b) Discuss the mechanism of action, pharmacological actions and therapeutic uses of Angiotensin converting enzyme inhibitors.

II. Write Notes on : (3X 5 =15)

1. Write about the drugs used in peptic ulcer
2. Discuss anticonvulsant drugs
3. Discuss oral hypoglycemic drugs

III. Short Answer Questions: (4X 2 =8)

1. Advantages of oral route of drug administration
2. Name four drugs used in cough
3. Name four antiviral drugs
4. Name four general anesthetics.

SECTION B - (PATHOLOGY AND GENETICS)

PATHOLOGY

I. Elaborate on: (1X15=15)

1. Define Neoplasia.
Mention the differences between benign and malignant Neoplasms.
Write briefly about spread of malignant tumours.

II. Write Notes on : (2X 5 =10)

1. Complications of Hypertension
2. Types of necrosis with examples of organs affected

GENETICS

II. Write Notes on : (2X 5 =10)

3. Downs Syndrome
4. Mutation

III. Short Answer Questions: (1X 2 =2)

1. Mention two benefits of Human Genomic Project.

[LF 1019]

AUGUST 2014

Sub. Code: 4718

B.Sc (Nursing) DEGREE EXAMINATION

SECOND YEAR

PAPER III – PHARMACOLOGY, PATHOLOGY AND GENETICS

Q.P. Code : 664718

Time : Three hours

Maximum : 75 marks

**Answer Section A and Section B Separately
SECTION A - (PHARMACOLOGY)**

I. Elaborate on: (1X15=15)

1. a) Classify non-steroidal anti-inflammatory drugs
- b) Explain the mechanism of action, pharmacological actions, adverse effects and therapeutic uses of paracetamol.

II. Write Notes on : (3X 5 =15)

1. Drugs used in Angina pectoris
2. Explain the mechanism of action of Penicillins
3. Anti platelet drugs

III. Short Answer Questions: (4X 2 =8)

1. Name four diuretic drugs
2. Teratogenicity with example
3. Name four anti-diarrhoeal drugs
4. Name four anti-tuberculous drugs

**SECTION B - (PATHOLOGY AND GENETICS)
PATHOLOGY**

I. Elaborate on: (1X15=15)

1. a. Define Tuberculosis.
- b. Mention the differences between primary and secondary tuberculosis.
- c. Write briefly about microscopic features of tuberculosis.

II. Write Notes on : (2X 5 =10)

1. Phagocytosis
2. Typhoid fever

GENETICS

I. Write Notes on : (2X 5 =10)

3. Gene therapy
4. Spontaneous abortion

II. Short Answer Questions: (1X 2 =2)

1. Mention two merits of Chorionic Villus Biopsy.
