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 : $(1 \times 15 = 15)$

(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 cogestive 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] **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) 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.

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August 2009

[KV 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) 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.

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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.

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[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)

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Elaborate on:			
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

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[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 acitons and adverse effects of ranitidine and omeprazole

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

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

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

1. Prodrug
2. Teratogenecity
3. Write a few side effects of cetrizine
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 chromosal 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

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[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.

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[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.

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[LG 1019] **FEBRUARY 2015** **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 : 75 marks**

Answer Section A and Section B Separately

SECTION A - (PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Classify the drugs used in congestive heart failure.
   b) Write the mechanism of action involved in Digoxin and its uses.
   c) Mention the adverse effects of Digoxin toxicity and how it can be treated.

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

1. Salbutamol
2. Teratogenecity
3. Ketamine

III. Short answers on: **(4 x 2 = 8)**

1. Define chemotherapy
2. Name two anti-diarrhoeal agents
3. Mention four adverse effects of corticosteroids
4. Name two uses of Atropine

SECTION B - (PATHOLOGY AND GENETICS)

PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Describe in detail about type of shock. Write in detail about etiological factors, pathogenesis and morphological change in septic shock.

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

1. Write in detail about Bronchiectasis.
2. Types of anemia and write about iron deficiency anemia.

GENETICS

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

1. Classify Mendalian disorder, write in detail about autosomal dominant disorder and features of any one type of autosomal disorder.
2. Genetic counseling.

II. Short answers on: **(1 x 2 = 2)**

1. Barr Body.

****

[LH 1019] **AUGUST 2015** **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 : 75 marks**

Answer ALL questions

Answer Section A and Section B Separately

SECTION A - (PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Classify drugs used in Bronchial Asthma.
   b) Explain the actions and uses of salbutamol.
   c) Write the role of nurses in the management of status asthmaticus.

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

1. Advantages of intravenous route of drug administration.
2. Amoxycillin.
3. Diclofenac.

III. Short answers on: **(4 x 2 = 8)**

1. Name four anti-malarial drugs.
2. Four drugs used in the management of Myocardial Infarction.
3. Drugs used in peptic ulcer.
4. Drugs used in Epilepsy.

SECTION B

(PATHOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Define edema.
   b) Discuss the classification and pathology of various types of edema.

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

1. Factors affecting wound healing.
2. Complications of Diabetes mellitus.

(GENETICS)

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

1. Turner’s Syndrome.
2. Role of Nurses in analysis of Genetic disorders.

II. Short answers on: **(1 x 2 = 2)**

1. Mention two uses of Ultra Sound in Prenatal Diagnosis.

****

[LI 1019] **FEBRUARY 2016** **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 : 75 Marks**

Answer ALL questions

Answer Section A and Section B Separately

SECTION A - (PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Classify local Anaesthetics.
   b) Write the mechanism of action, uses and adverse effects of Lignocaine.
   c) Discuss Lignocaine as anti-arrhythmic agent.

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

1. Omeprazole.
2. Topical antifungal agents.
3. Drugs used in cough.

III. Short answers on: **(4 x 2 = 8)**

1. Name two anti-viral agents.
2. Mention two uses of Nitroglycerine.
3. Define pro-drug with an example.
4. Mention two uses of oral contraceptives.

SECTION B - (PATHOLOGY AND GENETICS)

PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define and classify Inflammation. What are the signs of Inflammation? Discuss Phagocytosis and killing.

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

1. Primary complex.
2. Gangrene.

GENETICS

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

1. Genetic counselling.
2. Erythroblastosis fetalis.

II. Short answers on: **(1 x 2 = 2)**

1. Name two screening tests for detecting congenital abnormalities.

****

[LJ 1019] AUGUST 2016 **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 : 75 Marks**

Answer Section A and Section B Separately

SECTION A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Enumerate the various routes of administration of drugs with advantages and disadvantages of parenteral route.
   b) Write a note on Biotransformation.

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

1. Write about different kinds of Shock. Mention briefly about its management.
2. Frusemide as a diuretic.
3. Selective Serotonin Reuptake Inhibitors (SSRI).

III. Short answers on: **(4 x 2 = 8)**

1. Treatment of methotrexate toxicity.
2. Name any four nasal decongestants.
3. Difference between vaccine and sera.
4. Define counter irritant and name two examples.

SECTION B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Describe the causes of cell injury and describe in detail about role of ATP in cell injury.

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

1. Differences between benign and malignant tumour with suitable examples.
2. CSF – indication, collection and analysis of CSF.

GENETICS

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

1. Theory of Mendalian inheritance, write briefly about autosomal dominant disorder with suitable example.
2. Hydrops fetalis.

II. Short answers on: **(1 x 2 = 2)**

1. Causes for spontaneous abortion.

****

[LK 1019] FEBRUARY 2017 **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 : 75 Marks**

Answer Section A and Section B Separately

SECTION A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Classify Anti-hypertensive agents.
   b) Write the mechanism of action, uses and adverse effects of calcium channel blockers.

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

1. Helicobacter pylori treatment.
2. Succinyl choline and its uses.
3. Oral contraceptives.

III. Short answers on: **(4 x 2 = 8)**

1. Name any four uses of morphine.
2. Mention the first line drugs in the treatment of tuberculosis.
3. Define synergism with example.
4. Mention two uses of fibrinolytics.

SECTION B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define Shock. What are types of shock? Discuss the stages and clinical features of shock.

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

1. Factors affecting would healing.
2. Causes of anemia.

GENETICS

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

1. Down syndrome.
2. Name five autosomal dominant disorders.

II. Short answers on: **(1 x 2 = 2)**

1. Barr body.

****

[LL 1019] AUGUST 2017 **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 : 75 Marks**

Answer Section A and Section B Separately

SECTION A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Classify drugs used in Bronchial Asthma.
   b) Write in detail about the role of corticosteroids in bronchial asthma.

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

1. Mechanism of action and uses of phenytoin.
2. Drugs used in myocardial infarction.
3. Note on gentamycin.

III. Short answers on: **(4 x 2 = 8)**

1. Define astringents with example.
2. Name four anti-diabetic agents.
3. Name two cardio selective beta-blockers.
4. Management of organophosphate poisoning.

SECTION B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define necrosis. Discuss the different types of necrosis.

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

1. Pulmonary tuberculosis.
2. Rheumatic heart disease.

GENETICS

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

1. Mutation and its types.
2. Genetic counselling.

II. Short answers on: **(1 x 2 = 2)**

1. Sex determination.

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[LM 1019] FEBRUARY 2018 **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 : 75 Marks**

Answer Section A and Section B Separately

SECTION A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Classify Penicillins.
   b) Write the mechanism of action, uses and adverse effects of Amoxycillin.

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

1. Mechanism of action and uses of Pantoprazole.
2. Anti-tussives.
3. Note on intravenous general anaesthetics.

III. Short answers on: **(4 x 2 = 8)**

1. Define teratogenicity with example.
2. Mention two drugs used in allergy.
3. Write any two uses of heparin.
4. Name two drugs used in alcohol addiction.

SECTION B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. a) What is atherosclerosis?
   b) List out the causes and effects of atherosclerosis.

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

1. Fate of thrombus.
2. Iron deficiency anaemia.

GENETICS

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

1. Genetic counselling.
2. Blood groups.

II. Short answers on: **(1 x 2 = 2)**

1. Name two diseases with chromosomal aberrations.

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[LN 1019] AUGUST 2018 **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 : 75 Marks**

Answer Section A and Section B Separately

SECTION A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Define cholinergic drugs. Classify them with examples.
   b) Discuss the pharmacological actions, therapeutic uses, adverse effects and drug interactions of acetylcholine.

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

1. Drugs used in de-addiction.
2. Antacids.
3. Immuno-suppressants.

III. Short answers on: **(4 x 2 = 8)**

1. Name two drugs used in leprosy.
2. Define teratogenicity,
3. Define antibiotics.
4. Advantages of enteric-coated tablets.

SECTION B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define neoplasia. Discuss the different modes of spread of tumours.

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

1. Primary complex.
2. Complications of diabetes mellitus.

GENETICS

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

1. Pre-natal diagnosis.
2. Human genome project.

II. Short answers on: **(1 x 2 = 2)**

1. Mention two autosomal recessive disorders.

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[LO 1019] FEBRUARY 2019 **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 : 75 Marks**

Answer Section A and Section B Separately

SECTION - A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Write an account on Newer drug delivery system.
   b) Write the advantages and disadvantages of Enteral route of administration.
   c) Define First Pass metabolism. Mention the role of Nurses responsibility in drug administration.

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

1. Drugs used in amoebiasis.
2. Major tranquilizers with examples**.**
3. Drugs used in peptic ulcer treatment.

III. Short answers on: **(4 x 2 = 8)**

1. Explain rational use of drug?
2. Define autocoids. Mention two first generation antihistamines.
3. Define angina. Mention two drugs used in angina pectoris.
4. Advantages of Ayurvedic system of medicine.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define Necrosis. Classify necrosis and discuss each of them with suitable examples.

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

1. Metastasis.
2. Infective endocarditis.

GENETICS

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

1. Turner syndrome.
2. Gene Therapy.

II. Short answers on: **(1 x 2 = 2)**

1. Define mutation.

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[LP 1019] AUGUST 2019 **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 : 75 Marks**

Answer Section A and Section B Separately

SECTION - A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Classify antihypertensive drugs.
   b) Mode of action for Angiotensin Converting Enzyme inhibitors.
   c) Adverse effects, contraindication, nursing implication, Indication and dose of Captopril.

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

1. Explain the mechanism of action, therapeutic uses and nursing implication of Diazepam.
2. Explain the indication, dose, adverse effect and nursing implication of Zidovudine.
3. Explain the indication, dose, adverse effect and nursing implication of Frusemide.

III. Short answers on: **(4 x 2 = 8)**

1. Name any two antiepileptic drugs.
2. Name any two antipruritics.
3. Name any two Siddha and Ayurvedic preparation with their indication.
4. Write any four indications for Dexamethasone.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Describe in detail about types of shock. Write in detail about etiological factors, pathogenesis and morphological change in septic shock.

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

1. Write in detail about Bronchiectasis.
2. Types of anemia and write about iron deficiency anemia.

GENETICS

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

1. Classify Mendalian disorder and discuss the features of any one type of autosomal disorder.
2. Klienfelter's Syndrome.

II. Short answers on: **(1 x 2 = 2)**

1. Barr Body.

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[LQ 1019] FEBRUARY 2020 **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 : 75 Marks**

Answer Section A and Section B Separately

SECTION - A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. a) Classify sedatives and hypnotics.
   b) Mechanism of action and uses of diazepam.
   c) Management of diazepam poisoning.

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

1. Role of captopril in hypertension.
2. Mechanism of action and uses of ofloxacin.
3. Anti-thyroid agents.

III. Short answers on: **(4 x 2 = 8)**

1. Mention two uses of adrenaline.
2. Define dependence with example.
3. Mention the uses of acidifiers with example.
4. Name two anti-emetic drugs.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. What is inflammation? Write a detailed account on the cellular events of inflammation and its mediators.

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

1. Bronchitis.
2. Cirrhosis liver.

GENETICS

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

1. Pre-natal screening for developmental delay.
2. Gene therapy.

II. Short answers on: **(1 x 2 = 2)**

1. Name two autosomal recessive disorders.

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[BSCN 0321] MARCH 2021 **Sub. Code: 4718**

(AUGUST 2020 SESSION)

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 : 75 Marks**

Answer Section A and Section B Separately

SECTION - A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. Classify Adrenergic Drugs. Therapeutic Uses and Mode of Action of Adrenergic Drugs. Adverse Effects, Contraindication, Drug Interaction and dose of Adrenaline.

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

1. Explain the Indication, Dose, Adverse Effect and Nursing Implication of Metronidazole.
2. Explain the Indication, Dose, Adverse Effect and Nursing Implication of Bisacodyl.
3. Write about the Classification, Indication and Nursing Implication for Oral Hypoglycemic Drugs.

III. Short answers on: **(4 x 2 = 8)**

1. Name any two Nasal Decongestants.
2. Name any two Opioid Antagonists.
3. Define Bio-Availability.
4. Name any four uses of Povidone Iodine.

SECTION - B
(PATHOLOGY AND GENETICS)

PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. What is Cholelithiasis? Write in detail about Etio-pathogenesis, Clinical signs, Symptoms and Types of Cholelithiasis.

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

1. Write in detail about septic shock.
2. Estimation of bleeding time and clotting time.

GENETICS

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

1. Down syndrome.
2. Genetic counselling and its issues.

II. Short answers on: **(1 x 2 = 2)**

1. Methods of sex determination.

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

[BSCN 1221] **DECEMBER 2021** **Sub. Code: 4718**
(AUGUST 2021 SESSION)

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 : 75 Marks**

Answer Section A and Section B Separately

SECTION - A
(PHARMACOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. Define Diuretics, classify them. Mechanism of action of Loop Diuretics. Short notes on Urinary Acidifiers.

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

1. Mechanism of anti-septic action.
2. Anti-platelets with examples**.**
3. Drugs used in bronchial asthma treatment.

III. Short answers on: **(4 x 2 = 8)**

1. Explain Broad Spectrum Antibiotics?
2. Define Acetyl Choline.
3. Write any four Opioid Analgesics.
4. Name four Calcium Channel Blockers.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Explain the method of collection of Blood, Plasma, Serum for various Clinical, Pathological and Microbial Tests.

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

1. Wound healing.
2. Pathology of Peptic Ulcer.

GENETICS

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

1. Dysmorphism.
2. Human genome project.

II. Short answers on: **(1 x 2 = 2)**

1. Huntington’s disease.

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

[BSCN 0622] **JUNE 2022** **Sub. Code: 4718**

(FEBRUARY 2022 SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) Classify cholinergic drugs.
   b) Mechanism of action and therapeutic uses of cholinergic drugs.
   c) Cholinesterase inhibitors.

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

1. Aminoglycoside antibiotics.
2. Mucolytics with examples.
3. Pharmacological actions of NSAIDs.

III. Short answers on: **(4 x 2 = 8)**

1. Differentiate synergism and antagonism.
2. Define Teratogen with example.
3. Write any four antiscabies drugs.
4. Define prodrug.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define tumour. Discuss about the etiology and lab diagnosis of cancer.

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

1. Septic shock.
2. Viral Hepatitis.

GENETICS

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

1. Classify mendelian disorders.
2. Genetic Counselling.

II. Short answers on: **(1 x 2 = 2)**

1. Name any two uses of Karyotyping.

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

[BSCN 0622] **JUNE 2022** **Sub. Code: 4718**

(FEBRUARY 2022 SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) Classify cholinergic drugs.
   b) Mechanism of action and therapeutic uses of cholinergic drugs.
   c) Cholinesterase inhibitors.

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

1. Aminoglycoside antibiotics.
2. Mucolytics with examples.
3. Pharmacological actions of NSAIDs.

III. Short answers on: **(4 x 2 = 8)**

1. Differentiate synergism and antagonism.
2. Define Teratogen with example.
3. Write any four antiscabies drugs.
4. Define prodrug.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define tumour. Discuss about the etiology and lab diagnosis of cancer.

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

1. Septic shock.
2. Viral Hepatitis.

GENETICS

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

1. Classify mendelian disorders.
2. Genetic Counselling.

II. Short answers on: **(1 x 2 = 2)**

1. Name any two uses of Karyotyping.

****

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

[BSCN 1122] **NOVEMBER 2022** **Sub. Code: 4718**

(AUGUST 2022 EXAM SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

(Regulations for the candidates admitted from 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) Classify Anti Adrenergic drugs.
   b) Mechanism of action, adverse effects, Nursing implication, indication and dose of Propranolol.

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

1. Explain the indication, dose, adverse effect and nursing implication of Chloroquine.
2. Explain the indication, dose, adverse effect and nursing implication of Morphine.
3. Write about the classification, uses, contraindication, adverse effects and nursing implication for inhalational steroids.

III. Short answers on: **(4 x 2 = 8)**

1. Name any two anticoagulants with their indication.
2. Name any two drugs used as oral contraceptives with their mode of action.
3. What is Prodrug, its advantages with examples?
4. Name any two proton pump inhibitors with their uses.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Write in detail about etiological factors, pathogenesis and morphological change which occur in Carcinoma Cervix.

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

1. Write in detail about wound healing.
2. Megaloblastic anaemia.

GENETICS

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

1. Classify Mendalian disorder, write in detail about features of any one type of Autosomal recessive disorder.
2. Down syndrome.

II. Short answers on: **(1 x 2 = 2)**

1. Blood grouping.

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

[BSCN 0423] APRIL 2023 Sub. Code: 4718

(FEBRUARY 2023 EXAM SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

(Regulations for the candidates admitted from 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) What are the factors affecting drug absorption?
   b) Classify the drugs used in congestive heart failure.
   c) Describe the role of nurses in drug administration.

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

1. Uses and adverse effects of Phenytoin.
2. Classify Antiemetics.
3. Second Generation Antihistamines.

III. Short answers on: **(4 x 2 = 8)**

1. Define Pharmacology.
2. Mention two oral hypoglycaemic drugs.
3. Name two antiplatelet drugs.
4. Name two drugs used in CPR.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. a) Define Apoptosis.
   b) Write in detail about causes, morphological changes and Biochemical attention in Apoptosis.
   c) Write the Difference between Apoptosis and Necrosis.

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

1. Nephrotic Syndrome.
2. Write a note on Viral Hepatitis A and Viral Hepatitis B infection.

GENETICS

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

1. Genetic testing.
2. Mutation.

II. Short answers on: **(1 x 2 = 2)**

1. List out two Autosomal Recessive disorders.

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

[BSCN 1023] **OCTOBER 2023** **Sub. Code: 4718**

(AUGUST 2023 EXAM SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

(Regulations for the candidates admitted from 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) Classify Anti-Asthmatic drugs.
   b) Discuss in detail the indication, contraindication and adverse effect of Salbutamol.
   c) Add a note on nursing implication.

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

1. Define and classify Diuretic drugs.
2. Antiseptics and disinfectants.
3. Management of diarrhoea.

III. Short answers on: **(4 x 2 = 8)**

1. Define Chemotherapy.
2. Name four antiviral drugs.
3. Adverse effects of Chloramphenicol.
4. Name four Anti-Tubercular drugs.

SECTION - B

(PATHOLOGY AND GENETICS)

PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define Inflammation. Types of Inflammation. Describe the mechanism of Acute Inflammation.

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

1. CSF indication, collection and analysis in laboratory.
2. Rheumatic fever.

GENETICS

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

1. Mendel's law of inheritance.
2. Turner Syndrome.

II. Short answers on: **(1 x 2 = 2)**

1. Barr body.

****

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

[BSCN 0824] **AUGUST 2024** **Sub. Code: 4718**

B.Sc. (Nursing) DEGREE EXAMINATION
(Regulation 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) Classify Oral Hypoglycaemic Agent (OHA).
   b) Write in detail about the mechanism of action, uses and adverse effects of Metformin.
   c) Roles and responsibilities of nursing staff in managing hypoglycaemia.

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

1. Write in detail about sulphonamides.
2. Local Anaesthetics.
3. Classify with examples – anticonvulsants.

III. Short answers on: **(4 x 2 = 8)**

1. Name four anti-histamines.
2. Write the different routes of drug administration.
3. Name four antifungal drugs.
4. Name four anti-arrhythmic drugs.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define Jaundice. What is the etiological classification? Write in detail about the etiopathogenesis of Hepatitis.

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

1. Cellular adaptation.
2. Arthritis.

GENETICS

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

1. Marfan syndrome.
2. Down syndrome.

II. Short answers on: **(1 x 2 = 2)**

1. Define In-born errors. Give an example.

****

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

[BSCN 0825] **AUGUST 2025** **Sub. Code: 4718**

B.Sc. (Nursing) DEGREE EXAMINATION
(Regulation 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) Define and classify Anti-Hypertensive. (6)
   b) Write in detail about the mechanism of action, uses and adverse effects of β - Blockers.(5)
   c) Nurse's responsibilities in managing high risk Cardiac patients. (4)

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

1. Write in detail about Anti-Tubercular drugs.
2. Therapeutic uses of Amoxicillin.
3. Explain about Insulin.

III. Short answers on: **(4 x 2 = 8)**

1. Name four Anti-psychotics.
2. Define Pharmacodynamics.
3. Adverse effects of Benzodiazepines.
4. Name any two H_2 blockers.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define Shock. What is the Classification? Write in detail about the pathogenesis of Cardiogenic shock.

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

1. Embolism.
2. Emphysema.

GENETICS

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

1. Eugenics.
2. Klinefelter syndrome.

II. Short answers on: **(1 x 2 = 2)**

1. Write about two Prenatal diagnostic test.

****

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

[BSCN 0226] **FEBRUARY 2026** **Sub. Code: 4718**

B.Sc. (Nursing) DEGREE EXAMINATION
(Regulation 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) List the various routes of drug administration with examples.
   b) Write five advantages of oral and intravenous routes.
   c) Write five factors that affect the action of drugs.

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

1. Antiseptics and disinfectants.
2. Therapeutic uses of Aspirin.
3. Atropine derivatives and their uses.

III. Short answers on: **(4 x 2 = 8)**

1. Enumerate two Anti-malarial drugs.
2. Name two adverse effects of Aminoglycoside antibiotics.
3. Name any four common side effects of Antihistamines.
4. Name any two Antiviral drugs.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define Edema. Explain in detail about the etiopathogenesis of Edema.

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

1. Define Inflammation. Describe the mechanism of acute inflammation.
2. Chronic bronchitis.

GENETICS

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

1. Explain Genetic counselling.
2. Down's syndrome.

II. Short answers on: **(1 x 2 = 2)**

1. Name four different types of Blood groups.

****

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

[BSCN 0826] AUGUST 2026 Sub. Code: 4718

B.Sc. (Nursing) DEGREE EXAMINATION
(Regulation 2006-2007 onwards)

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: **(1 x 15 = 15)**

1. a) Classify Antianginal drugs.
   b) Mechanism of action and therapeutic uses of Glyceryl trinitrate.
   c) Adverse drug reactions of Glyceryl trinitrate.

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

1. Drugs used in Peptic ulcer treatment.
2. Advantages and disadvantages of Intravenous route.
3. Drugs used for Cough.

III. Short answers on: **(4 x 2 = 8)**

1. Mention four adverse effects of Corticosteroids.
2. What is a Prodrug, its advantages with examples?
3. Enumerate any four oral hypoglycaemic drugs.
4. Name any two opioid antagonists.

SECTION - B
(PATHOLOGY AND GENETICS)
PATHOLOGY

I. Elaborate on: **(1 x 15 = 15)**

1. Define Tuberculosis. Write in detail about mode of transmission, types of Tuberculosis and its diagnosis.

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

1. Wound healing.
2. Types of Anaemia and elaborate on Iron deficiency anaemia.

GENETICS

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

1. What are the indications for prenatal genetic analysis and write in detail about two prenatal diagnostic test?
2. Turner's syndrome.

II. Short answers on: **(1 x 2 = 2)**

1. Write two Autosomal dominant disorders.

****