

PRAVARA INSTITUTE OF MEDICAL SCIENCES
(Deemed to be University)

Second Year B. Sc. Nursing, Examination, July 2018

Paper Title: Pharmacology, Pathology and Genetics **Date:** 07th July, 2018

Paper Code: NU – 203

Marks: 75

Time: 9.30 am to 12.30 pm

Instruction to the Candidates:

1. Answers to the sections B, C & D should be written in separate answer books
2. All questions are compulsory.
3. Neat diagrams must be drawn wherever necessary.
4. Answer written in illegible handwriting will not be assessed.
5. A Separate Answer sheet is provided for MCQ which will be collected after 20 minutes

Section –B (Pharmacology)

Que. 2 Answer the following (Any Three):

Marks 15
(3X5)

- a) Insulin therapy and role of nurse
- b) Enlist drugs used in hormonal disorder and write the role of nurse in use of oral contraceptives
- c) Enlist the types of alternative medicine and write the role of nurse
- d) Explain pharmacokinetics

Que. 3 Answer the following

Marks 15
(3+4=7)

- a) Define pharmacodynamics, write the drugs used in pulmonary tuberculosis and explain the role of nurse in anti tuberculin drug administration?
- b) Classify bronchodilator drugs, write the therapeutic uses of antiemetic with side effects of antiemetics

(4+4=8)

OR

- b) Describe therapeutic uses of nitroglycerine and write the side-effects of nitroglycerine with role of nurse

Section C – Pathology

Que. 4 Answer the following (Any Four):

Marks 08
(4X2)

- a) State the various tests done in urine analysis
- b) Enumerate the tests done before blood transfusion
- c) Enlist the risk factors for cancer
- d) Factors affecting wound healing
- e) Define gangrene and enlist its type

Que. 5 Answer the following :

Marks 10
(5+5)

- a) Semen analysis
- b) Explain the pathophysiology of myocardial infarction

OR

- a) Deference between benign and malignant carcinoma
- b) Describe the types of embolism

Section D - (Genetics)

Que. 6 Answer the following (Any Three):

Marks 12
(3X4)

- a) Practical application of genetics in nursing
- b) Differentiate between somatic cell division and germ line cell division
- c) Gene therapy
- d) Human genome project

**PRAVARA INSTITUTE OF MEDICAL SCIENCES
(Deemed University)**

Second Year B. Sc. Nursing Examination, June 2017

Paper Title:	Pharmacology, Pathology, Genetics	Date:	5th June 2017
Paper Code:	NU – 203		
Marks:	75	Time:	9.30 a.m to 12.30 p.m

Instruction to the Candidates:

1. Answer to the sections B, C & D should be written in separate answer books.
2. All question are compulsory.
3. Neat diagrams must be drawn wherever necessary.
4. Write answer on both sides of answer book.
5. Answer written in illegible handwriting will not be assessed.
6. A Separate Answer sheet is provided for MCQ which will be collected after 20 minutes

Section B (Pharmacology)

- Que. 2 . Answer the following: (Any Three)** **Marks 15
(3X5)**
- a) Advantages and disadvantages of IM route
 - b) Discuss the therapeutic uses of penicillin
 - c) Explain on fluid and electrolyte therapy
 - d) Enlist the emergency drugs, and write the drugs used in CPR
- Que. 3** **Marks 15
(7+8)**
- a) Classify anticoagulants, discuss the mechanism of action and therapeutic uses of heparin
 - b) Describe the therapeutic uses and adverse effects of calcium channel blockers and nurses role

OR

- b) Classify disinfectants, discuss the therapeutic uses of disinfectant and write the responsibilities of nurse

Section C (Pathology)

- Que. 4 Answer the following: (Any Four)** **Marks 8
(4X2)**
- a) Define calculi, and write the causes of renal calculi
 - b) Define leukemia, and mention the blood tests and its normal value
 - c) Write nurse responsibility in collection of urine sample
 - d) Define infiltration and regeneration
 - e) Define aneurysms, and write it's classification
- Que. 5 Answer the following:** **Marks 10
(5+5)**
- a) Define osteoporosis, and write its microscopic features
 - b) Define stroke, and write its causes and complications

OR

- a) Write the criteria's for blood donation
- b) Write the role of nursing staff in collection of blood sample

Section: D (Genetics)

- Que. 6 Answer any three** **Marks 12
(3X4)**
- a) Prenatal screening
 - b) Neural tube defects
 - c) Inborn errors of metabolism
 - d) Down syndrome

PRAVARA INSTITUTE OF MEDICAL SCIENCES
(Deemed University)

Second Year B. Sc. Nursing, Examination, December 2016

Paper Title: Pharmacology, Pathology and Genetics **Date:** 5th December 2016

Paper Code: NU – 203

Marks: 75

Time: 9.30 am to 12.30 pm

Instruction to the Candidates:

1. Answers to the sections B, C & D should be written in separate answer books
2. All questions are compulsory.
3. Neat diagrams must be drawn wherever necessary.
4. Answer written in illegible handwriting will not be assessed.
5. A Separate Answer sheet is provided for MCQ which will be collected after 20 minutes

Section –B (Pharmacology)

Que. 2 Answer the following (any three):

Marks 15
(3X5)

- a) Factors affecting absorption of drug
- b) Explain on oral contraceptives
- c) Advantage and disadvantages of IV route of drug administration
- d) Enlist the drugs used in treatment of pulmonary TB and write the nursing responsibility

Que. 3 Answer the following

Marks 15
(5+2=7)

- a) Classification and therapeutic uses of bronchodilators; write the responsibilities of nurse
 - b) Therapeutic uses and adverse effects of ACE inhibitors; write the nurse role
- OR**
- b) Therapeutic uses and adverse effects of nitroglycerine; and write nurse role

(6+2=8)

(6+2=8)

Section C- (Genetics)

Que. 4 Answer the following (any three):

Marks 12
(3X4)

- a) Role of Nurse in genetic counseling
- b) Characteristics and structure of genes
- c) Draw and label genetic inheritance pattern
- d) Mitosis and meiosis

Section D – Pathology

Que. 5 Answer the following (any four):

Marks 08
(4X2)

- a) Define aneurysm and enumerate its types
- b) Enumerate the diagnostic test for myocardial infarction
- c) Pathological changes in tuberculosis
- d) State the physical characteristics of urine
- e) List the purposes of cerebrospinal fluid analysis

Que. 6 Answer the following :

Marks 10
(5+5)

- a) Define asthma and write etiopathophysiology of bronchial asthma
- b) Differentiate between Benign and Malignant cancer

OR

- a) Explain the criteria for selection of blood donor
- b) Nurse role in collection of semen specimen

PRAVARA INSTITUTE OF MEDICAL SCIENCES
(Deemed University)

Second Year B. Sc. Nursing Examination, June 2016

Paper Title:	Pharmacology, Pathology, Genetics	Date:	6 th June 2016
Paper Code:	NU – 203		
Marks:	75	Time:	2.30 p.m to 5.30 p.m

Instruction to the Candidates:

1. All question are compulsory.
2. Neat diagrams must be drawn wherever necessary.
3. Write answer on both sides of answer book.
4. Answer written in illegible handwriting will not be assessed.
5. A Separate Answer sheet is provided for MCQ which will be collected after 20 minutes

Section B (Pharmacology)

- | | | |
|---------------|--|-----------------|
| Que. 2 | Answer the following: (Any Three) | Marks 15 |
| | a) Name some local anesthetics and write various techniques of local anaesthesia | (3X5) |
| | b) Write the drug treatment for acute amoebiasis | |
| | c) Define bioavailability of drug and mention the factors influencing it | |
| | d) Discuss on therapeutic uses of aspirin | |
| Que. 3 | a) Classify opioid analgesics, and discuss the therapeutic uses and contraindications of morphine | Marks 15 |
| | b) Classify oral antidiabetic agents, and discuss the mechanism of action and uses of sulphonylureas | (8+7) |

OR

- b) Classify skeletal muscle relaxants, and discuss the mechanism of action and uses of diazepam

Section C (Pathology)

- | | | |
|---------------|---|-----------------|
| Que. 4 | Answer the following: (Any Four) | Marks 8 |
| | a) Define edema, and enumerate the etiology of edema formations | (4X2) |
| | b) Define stroke, and enlist the types | |
| | c) Enlist the complications of diabetes mellitus | |
| | d) Enumerate the clinical features of chronic obstructive pulmonary disease | |
| | e) Role of nurse in blood collection procedure | |
| Que. 5 | Answer the following: | Marks 10 |
| | a) Define tuberculosis, and etiopathophysiology of pulmonary tuberculosis | (2X5) |
| | b) Analysis of gastric and duodenal contents | |

OR

- a) Define acute renal failure, and describe the pathophysiology of acute renal failure
- b) Role of a nurse in urine and stool collection

Section: D (Genetics)

- | | | |
|---------------|--|-----------------|
| Que. 6 | Answer any three | Marks 12 |
| | a) Down's syndrome | (3X4) |
| | b) Universal rules of family pedigree construction | |
| | c) Distinguish between X and Y chromosome | |
| | d) Significance of mitosis | |

PRAVARA INSTITUTE OF MEDICAL SCIENCES
(Deemed University)

Second Year B. Sc. Nursing, Examination, June 2015

Paper Title: Pharmacology, Pathology and Genetics Date: 6th June 2015
Paper Code: NU – 203

Marks: 75

Time: 9.30 am to 12.30 pm

Instruction to the Candidates:

1. Answers to the sections B, C & D should be written in separate answer books
2. All questions are compulsory.
3. Neat diagrams must be drawn wherever necessary.
4. Answer written in illegible handwriting will not be assessed.
5. A Separate Answer sheet is provided for MCQ which will be collected after 20 minutes

Section –B (Pharmacology)

Que. 2 Answer the following (any three):

- a) Advantages and disadvantages of intravenous route
- b) Furosemide
- c) Dextromethorphan
- d) Describe the uses of diclofenac sodium

Marks 15
(3X5)

Que. 3 Answer the following

- a) Define antibiotic. Describe therapeutic uses and adverse effects of gentamicin.
- b) Enlist the analgesic agents and describe the uses of aspirin

Marks 15
(2+5=7)

OR

- b) Enlist the anticholinergic agents and describe therapeutic uses of atropine

(4+4=8)

Section C- (Genetics)

Que. 4 Answer the following (any three):

- a) Legal and ethical issues in genetics
- b) Congenital abnormalities
- c) Chromosomes
- d) Role of folic acid in neural tube defect

Marks 12
(3X4)

Section D – Pathology

Que. 5 Answer the following (any four):

- a) Define infarction and list the etiology of infarction
- b) Enlist the diagnostic tests for hematological disorders
- c) Enumerate the clinical features of hypocalcemia
- d) Define gangrene and enlist its types
- e) Role of nurse in bone marrow aspiration

Marks 08
(4X2)

Que. 6 Answer the following :

- a) Explain the stages of wound healing
- b) Differentiate between peptic and duodenal ulcer

Marks 10
(5+5)

OR

- a) Define liver cirrhosis and etiopathophysiology of liver cirrhosis
- b) Semen analysis

PRAVARA INSTITUTE OF MEDICAL SCIENCES
(Deemed University)

Second Year B. Sc. Nursing, Examination, December 2014

Paper Title: Pharmacology, Pathology, Genetics Date: 5th December 2014
Paper Code: NU – 203
Marks: 75 Time: 9.30 am to 12.30 pm

Instruction to the Candidates:

1. Answers to the sections B, C & D should be written in separate answer books
2. All questions are compulsory.
3. Neat diagrams must be drawn wherever necessary.
4. Answer written in illegible handwriting will not be assessed.
5. A Separate Answer sheet is provided for MCQ which will be collected after 20 minutes

Section –B (Pharmacology)

Que. 2 Answer any three of the following

Marks 15
(3x5)

- a) Explain pre anesthetic medication
- b) Explain antithyroid drugs
- c) Explain the treatment of leprosy
- d) Write the mechanism of action and uses of heparin

Que. 3

- a) Discuss the atropine substitutes with their uses and write the treatment of organophosphorous poisoning
- b) Describe the therapeutic uses and contraindications of corticosteroids

Marks 15
(3+4)
(4+4)

OR

- b) Classify antihypertensive drugs. Write treatment for moderate hypertension.

(4+4)

Section C- (Genetics)

Que. 4 Answer any three

Marks 12
(3x4)

- a) Role of nurse in genetic counselling
- b) Explain prenatal testing and diagnosis
- c) Explain neural tube defects and the role of folic acid in lowering the risk of neural tube defect
- d) Write the significance of mitosis

Section D – Pathology

Que. 5 Answer any four of the following

Marks 08
(4x2)

- a) Define ulcer and classify the types of ulcers
- b) Enumerate the clinical features of myocardial infarction
- c) Pathogenesis of bronchial asthma
- d) Role of a nurse in blood collection
- e) Enlist the types and clinical features of renal calculi

Que. 6 Answer the following:

Marks 10
(2x5)

- a) Define Ischaemia, its causes and pathogenesis of ischemia
- b) Define pneumonia, classify its types and explain the pathogenesis of pneumonia

OR

- a) Define shock, classify and explain the etiopathogenesis of shock
- b) Define anaemia, enumerate its types and explain its etiopathogenesis

PRAVARA INSTITUTE OF MEDICAL SCIENCES
(Deemed University)

Second Year B. Sc. Nursing, Examination, June 2014

Paper Title: Pharmacology, Pathology, Genetics Date: 6th June 2014

Paper Code: NU - 203

Marks: 75

Time: 9.30 am to 12.30 pm

Instruction to the Candidates:

1. Answers to the sections B, C & D should be written in separate answer books
2. All questions are compulsory
3. Neat diagrams must be drawn wherever necessary.
4. Answer written in illegible handwriting will not be assessed.
5. A Separate Answer sheet is provided for MCQ which will be collected after 20 minutes

Section B (Pharmacology)

Que. 2 Answer any three of the following Marks 15
(15x3)

- a) Write note on "Antidote" drugs.
- b) Discuss the therapeutic uses of Adrenaline
- c) Name some local anaesthetic & write Various techniques of local anaesthesia
- d) Define bioavailability of Drug. Mention factors influencing it.

Que. 3 Marks 10
(2x5)

- a) Classify opioid analgesic. Discuss the therapeutic uses and contra-indications of morphine
- b) Classify antitubercular drugs. Discuss the treatment of pulmonary tuberculosis (5x2)

OR

b) Classify diuretics & write note on mannitol

Section C- (Genetics)

Que. 4 Answer any three Marks 12
(3x4)

- a) Chorionic Villus sampling
- b) Mutation
- c) Explain Mendel's law of segregation
- d) Role of nurse in field of genetics

Section D- Pathology

Que. 5 Answer any four of the following Marks 20
(4x5)

- a) Differentiate between Translocate and Reciprocal
- b) Mention the risk factors of Myocardial Infarction
- c) Enlist the causes of peptic Ulcer
- d) Enumerate the clinical Features of Meningitis
- e) Define Hepatitis and classify types of Hepatitis

Que. 6 Answer the following: Marks 10
(2x5)

- a) Define Neoplasm and difference between Benign and Malignant Neoplasm
- b) Explain the stages of Wound Healing

OR

- a) Define Acute renal failure and describe its pathophysiology
- b) Cerebrospinal Fluid Analysis