

Sep-25--9991

B. Sc. Nursing Sem-IV Examination

September -2025

Pharmacology & Pathology (I & II) and Genetics

Total Marks : 75

Time : 3 Hours

- Instructions : 1. The number to the right indicated full marks.
2. Draw diagram wherever necessary.
3. Answer each section in the respective answer sheet only.
4. Answer written in the inappropriate sectional answer book will not be assessed in any case.

SECTION - I (Pharmacology) (38 Marks)

1. Multiple Choice Questions :

07

- A substance that does activate the receptor is
a. antagonist b. Agonist
c. Synergism d. Tolerance
2. A drug that blocks the neurotransmitter acetylcholine from binding to its receptors in the CNS
a. Cholinergic b. Anticholinergic
c. Macrolide d. Anthelmintics
3. The study of absorption, distribution, metabolism and excretion of drugs and their corresponding therapeutic, responses in man is
a. Idiosyncratic effect b. Pharmacodynamics
c. Pharmacokinetics d. Pharmacology
- Treatment for a venomous snake bite is
a. antivenom b. Coagulants
c. expectorants d. antihistamines
5. Which one of the following functions as a natural calcium channel blocker
a. Calcium gluconate b. oxytocin
c. Magnesium sulphate d. cortisolone
6. Which drug heightened sense of well-being, alertness and increases motor activity
a. vitamins b. minerals
c. Probiotic d. Stimulant
7. Which drugs are used to treat cancer by preventing the growth and spread of tumors.
a. antineoplastic b. neoplastic agent
c. antidotes d. Immuno suppressants

2. Essay type question :

10

Define antihistamines. Write its action, dosage, composition, metabolism, contra indications and nurses roll in administering antihistamines.

3. Short Notes (Any Three)

15

1. Antiseptics
2. Diuretics
3. Principles of prescribing medications
4. Antimalarial
5. NSAID

4. Very Short Answer

06

1. Define estrogens
2. Indications of Ergometrine
3. Define Antihypertensives

SECTION-II (37) Pathology & Genetics

04

5. Multiple Choice Questions (MCQ) :

1. abnormal growth of cells or tissues in the body
 - a. neoplasia
 - b. plasmapheresis
 - c. Exudates
 - d. osteotitis
 2. inflammation of the urinary bladder
 - a. Cystitis
 - b. Ovarian cyst
 - c. Fibroadenoma
 - d. Encephalitis
 3. Removal of cells or tissues from the body for pathological examination
 - a. Microscopic examination
 - b. Biopsy
 - c. atropy
 - d. hyperplasia
- A sac or pouch containing fluid or other materials that is encased by a tissue membrane is
- a. cyst
 - b. stroke
 - c. Carcinoma
 - d. tumors

6. Short Notes (Any Three)

- a. Glomerulonephritis
- b. Explain the methods and collection of CSF
- c. Fibroadenoma
- d. Explain about coagulation tests

7. Very Short Answer :

1. Define pathology
2. Apoptosis
3. Encephalitis

8. Multiple Choice Questions (MCQ) :

1. Which of the following is an irreversible type of cell injury ?
 - a. Cellular swelling
 - b. Fatty change
 - c. Karyolysis
 - d. Hydropic degeneration
2. Permanent change in the DNA sequence of a gene
 - a. mutation
 - b. miosis
 - c. Fibroids
 - d. meningitis
3. The study of the form, structure and appearance of cells, tissues or organs
 - a. morphology
 - b. graphology
 - c. Inheritance
 - d. pyelonephritis

9. Short Notes :

Write the difference between mitosis and meiosis

10. Very Short Answer :

1. Define Genetics
2. Define Trisomy 21