


RAN-2306000904010001

Bachelor of Science (Nursing) Sem. - IV Examination September - 2025
Pharmacology, Pathology and Genetics

Time: 3 Hours]
[Total Marks: 75
સૂચના : / Instructions

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

SECTION - A

(Pharmacology I & II) (38 Marks)

Q. 1. Multiple Choice Questions:
(07×01=07)

- Which drug is derived from microorganism?
 - Penicillin
 - Morphine
 - Digoxin
 - Atropine
- When one drug increases the effect of another drug it is called as :
 - Synergism
 - Antagonism
 - Non competitive antagonist
 - Therapeutic index
- Metoclopramide belongs to which category of drug?
 - Prokinetics agent
 - Phenothiazines agent
 - 5HT₃ antagonists' agent
 - Antihistamine
- Salbutamol is a:
 - β receptor selective drug
 - β₂ receptor selective drug
 - β receptor agonist
 - Short acting β₂ adrenoreceptor antagonist
- Which of the following is the short term effect of heroin?
 - Euphoria
 - infection of heart lining
 - Addiction
 - Decreased function of liver
- Which of the following is an osmotic diuretic?
 - Furosemide
 - Spirolactone
 - Mannitol
 - Triamterene
- Which is the short acting psychoactive drug in tobacco that causes addiction among smokers?
 - Acamprosate
 - Nicotine
 - Varenicline
 - Bupropion

Q. 2. Long Essay (Any ONE):
(01×10=10)

- Describe the classification of the anti-microbial drugs. (04)
 - Explain Principles for use of anti-microbials. (06)
- Classify Non Steroidal Anti-inflammatory Drugs (NSAIDs). (04)
 - Explain the mechanism of action, adverse effects, uses and nurses responsibility of Aspirin. (06)

- Q. 3. Short Answer Questions (Any THREE):** (03×05=15)
1. Quality of ideal antiseptics and role of nurse
 2. Corticosteroid drugs
 3. Anti-neoplastic Drugs
 4. Principle of prescribing drugs and ethical issues related to it.

- Q. 4. Very Short Answer Questions (Any THREE):** (03×02=06)
1. Name list of first line anti-tuberculosis drugs.
 2. Name list of oral hypoglycaemic agent.
 3. Inj. Amiodarone
 4. Drugs used in pre-anesthetic medications.

SECTION - B
(Pathology I & II) (25 Marks)

- Q. 5. Multiple Choice Questions:** (04×01=04)
1. Reed-Sternberg cells are diagnostic of:
a. Non-Hodgkin's lymphoma b. Hodgkin's lymphoma
c. Multiple myeloma d. Leukemia
 2. The earliest change seen in reversible cell injury is:
a. Nuclear pyknosis b. Cell swelling
c. Karyolysis d. Apoptotic body formation
 3. Tumor marker for ovarian carcinoma is:
a. PSA b. CEA
c. CA-125 d. AFP
 4. Hemophilia A is due to deficiency of:
a. Factor VII b. Factor VIII
c. Factor IX d. Factor X

- Q. 6. Short Answer Questions (Any THREE):** (03×05=15)
1. Granulomatous inflammation
 2. Fate of thrombus
 3. Clinico-pathological features of renal calculi
 4. Cardiac biomarkers

- Q. 7. Very Short Answer Questions (Any THREE):** (03×02=06)
1. Difference between benign and malignant tumors
 2. Stages of pneumonia
 3. Laboratory findings in acute pancreatitis
 4. Hydatiform mole

SECTION - C
(Genetics) (12 Marks)

- Q. 8. Multiple Choice Questions:** (03×01=03)
1. Which of the following disorder is called Royal disease
a. Colour blindness b. Haemophilia
c. Sickle cell anemia d. Alzheimer's disease
 2. In which phase of meiosis I, the primary oocytes remain suspended?
a. Prophase b. Metaphase
c. Anaphase d. Telophase

3. The number of chromosomes in a child with Down syndrome is
a. 48 b. 47
c. 44 d. 46
4. First human gene therapy was instituted in _____.
a. 1990 b. 1991
c. 1992 d. 1993

Q. 9. Short Answer Questions (Any ONE):

(01×05=05)

1. Genetic counselling
2. Inborn errors of metabolism

Q. 10. Very Short Answer Questions (Any TWO):

(02×02=04)

1. Types of mutation
2. Consanguinity atopy
3. Dysmorphism
