



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
BACHELOR OF SCIENCE IN NURSING (UPGRADING)
END OF TRIMESTER EXAMINATIONS AUGUST 2022**

UNIT CODE: BSN 222 UNIT NAME: CLINICAL PHARMACOLOGY

DATE: 4th August, 2022

TIME: TWO HOURS START: 2:00 PM FINISH: 4:00PM

INSTRUCTIONS

1. Please indicate your **REGISTRATION NUMBER** on all the answer sheets: **DO NOT WRITE YOUR NAME.**
2. The paper consists of **THREE (3) sections.**
3. **SECTION A** consists of **MULTIPLE CHOICE QUESTIONS.** Attempt **ALL** the questions by choosing the **BEST choice among** the statements. Clearly indicate any corrections made.
4. **SECTION B** consists of **SHORT ANSWER QUESTIONS.** Attempt **ALL** the questions.
5. **SECTION III** consists of **LONG ESSAY QUESTIONS.** Attempt **ALL** the questions.

Section A: Multiple Choice Questions (20 Marks)

1. Which of the following is an antagonist of heparin?
 - A. Protamine sulfate
 - B. Phylloquinone
 - C. Ticlopidine
 - D. Clopidogre
2. Which of the following drug is given to patients with chronic renal insufficiency to treat anemia?
 - A. Cyanocobalamin
 - B. Deferoxamine
 - C. Erythropoietin
 - D. Oprelvekin
3. Pharmacologic therapy can be initiated after how long, once the acute gout attack has taken place?
 - A. After 48 hours
 - B. Within 1 hour
 - C. Within 24 hours
 - D. After 24 hours
4. Which of the following drug is **NOT** a first-line option for pharmacological treatment of gout
 - A. Corticosteroids
 - B. Aspirin
 - C. Oral colchicine
 - D. NSAIDS
5. Which one of the following drug which increases absorption of iron from intestine:
 - A. Cyanocobalamin
 - B. Folic acid
 - C. Ascorbic acid
 - D. Erythropoetin
6. Which of the following is an adverse effect of oral iron therapy is:
 - A. Anemia
 - B. Thrombocytopenia
 - C. Headache
 - D. Constipation
7. What are opioid analgesics?
 - A. Render a specific portion of the body insensitive to pain
 - B. Render the full body of the patient insensitive to pain
 - C. Render insensitive to pain by binding to opioid receptors
 - D. Render a specific CNS of the body insensitive to pain
8. Which of the following are semi-synthetic opiates?
 - A. Codeine
 - B. Oxycodone
 - C. Fentanyl
 - D. Endomorphins
9. Which of the following side effects of morphine is the **MOST** dangerous?

- A. Excitation
 - B. Nausea
 - C. Constipation
 - D. Tolerance and dependence
10. Which of the following Fentanyl analogues is ultra-short acting analgesic?
- A. Alfentanil
 - B. Sufentanil
 - C. Remifentanil
 - D. Carfentanil
11. Meloxicam is an example of which type of inhibitors?
- A. Selective COX 2
 - B. Preferential COX 2
 - C. COX 3
 - D. Non selective
12. Which drug shouldn't be given to a patient if he/she is allergic to sulfonamides?
- A. Paracetamol
 - B. Indomethacin
 - C. Nimesulide
 - D. Celecoxib
13. If a child has Reye's syndrome, then which NSAID should be avoided ?
- A. Aspirin
 - B. Diclofenac
 - C. Paracetamol
 - D. Meloxicam
14. What NSAID effect is used to treat Dysmenorrhea (Painful menstruation)?
- A. Antipyretic
 - B. Analgesic
 - C. Anti-ulcer
 - D. Anti-inflammatory
15. Which of the following Anti-tuberculosis drug cause transient memory loss?
- A. Ethionamide
 - B. INH
 - C. Ethambutol
 - D. Pyrazinamide
16. Smoking cigarettes can how quickly some antipsychotics are broken down.
- A. Decrease
 - B. Increase
 - C. A and B
 - D. None of the above
17. Antidepressant therapeutic effects **MAY NOT** be seen for two to four weeks following administration of:
- A. Serotonin-specific reuptake inhibitors (SSRIs)
 - B. Tricyclic antidepressants (TCA)
 - C. Both SSRI and TCA
 - D. Neither SSRI or TCA

18. Hydrochlorothiazide act by?
 - A. Causing sodium and water loss
 - B. Increasing resistance of blood vessels
 - C. Causing sodium and water retention
 - D. Increasing production of aldosterone
19. Which of the following adverse effect is associated with thiazide diuretics?
 - A. Increase in uric acid
 - B. Potassium depletion
 - C. Decrease in uric acid
 - D. Increase of potassium
20. Use of preanesthetic clonidine is associated with?
 - A. Reduction of intraoperative blood-pressure
 - B. Increase in anesthetic requirements for inhaled and injected agents
 - C. Increase in the likelihood of reflex tachycardia caused by direct laryngoscopy for tracheal intubation
 - D. Increase in circulating plasma epinephrine levels

Section B: Short Answer Questions (30 Marks)

1. Define the following terms (6 Marks)
 - a. Xenobiotics
 - b. Poisons
 - c. Drug
 - d. Immunopharmacology
 - e. Pharmacognosy
 - f. Pharmacodynamics
2. Highlight **Four (4)** the central nervous system effects of methylxanthine (4 Marks)
3. Enumerate classification of drugs used to treat asthma (6 Marks)
4. With an aid of a diagram, highlight the sites of action of Angiotensin converting enzyme inhibitors (ACE) & Angiotensin II Receptor Blockers (4 Marks)
5. State **Five (5)** clinical use of Alpha 1 adrenergic receptor blocking agents (5 Marks)
6. State **Five (5)** types of antagonists as applied in drug-receptor interactions (5 Marks)

Section C: Long Answer Question/s (20 Marks)

1. Discuss nursing care for a patient receiving cytotoxic drugs (10 Marks)
2. Discuss **5 (Five)** extrapyramidal side effects of older antipsychotics (10 Marks)