



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
END OF SEMESTER DECEMBER 2023 SUPPLIMENTARY EXAMINATIONS**

COURSE CODE BSN 222 TITLE: CLINICAL PHARMACOLOGY

DATE:

Duration: 2 HOURS

Start: 9:00 AM

Finish: 11:00 AM

INSTRUCTIONS

1. This exam is out of 70 marks
2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions (20 marks)
Section II: Short Answer Questions (30 marks) and Section III: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Do Not write anything on the question paper -use the back of your booklet for rough work if need be.

SECTION I: MULTIPLE CHOICE QUESTIONS**(20 MARKS)**

1. The cephalosporin with the highest activity against gram positive cocci is
 - a) Cefepime
 - b) Cefaclor
 - c) Cefuroxime
 - d) Cefotaxim
2. Cinchonism side effect is seen with which of the following antimalarial drugs
 - a) Quinine
 - b) Chloroquine
 - c) Primaquine
 - d) Mefloquine
3. Which adverse effect can result if tetracycline is administered to children younger than 8 years of age?
 - a) Drug-induced neurotoxicity
 - b) Delayed growth development
 - c) Gastrointestinal (GI) and rectal bleeding
 - d) Permanent discoloration of the teeth
4. Example of a Selective serotonin reuptake inhibitors SSRIs is:
 - a) Amitryptiline
 - b) Desipramine
 - c) Fluoxetine
 - d) Lithium
5. The likely recommended dose of Hydrochlorothiazide in management of hypertension is :
 - a) 12.5-25mg/day
 - b) 2-3mg/day
 - c) 25-50mg/day
 - d) 50mg/day
6. Angiotensin II receptor antagonist includes;-
 - a) Enalaprilat
 - b) Candesartan
 - c) Nifedipine
 - d) Methyl dopa
7. Which of the following is not regarded as an adverse effect of captopril;-
 - a) Dry cough
 - b) Loss of taste
 - c) Severe hypertension
 - d) Angioedema
8. In management of heart failure, the nurse should avoid administering;-
 - a) Calcium channel blockers
 - b) Diuretics,
 - c) Inhibitors of Renin Angiotensin Aldosterone System (RAAS)
 - d) Inotropic agents beta blockers
9. Cardiac glycosides include;-
 - a) Dopamine
 - b) Digoxin
 - c) Dobutamine

- d) Thiazides
10. Concerning nitroglycerin;-
- Acts on vascular smooth muscle to decrease vasodilation
 - Primarily works on arteries
 - Only modest dilation of veins
 - Decreases oxygen demand by decreasing venous return
11. In management of cardiac arrhythmias, class 1 drugs include;-
- Quinidine
 - Lidocaine
 - Phenytoin
 - Amiodarone
12. Loop diuretic includes;-
- Ethacrinic acid
 - Triamterene,
 - Amiloride,
 - Spironolactone
13. In treatment of anaphylactic shock, drug of choice;-
- Dopamine
 - Levarterenol
 - Verapamil
 - Ephedrine
14. Antimetabolite in cancer management includes;-
- Flourouracil(5- fu),methotrexate hydroxyl urea
 - Chloambucil,,methotrexate hydroxyl urea
 - Flourouracil(5- fu), cisplastins lamustine
 - Flourouracil(5- fu), chloambucil
15. Antibiotic antitumor agents includes;-
- Mitomycin
 - Misicillin
 - Clindamycin
 - Erythromycin
16. Chemotherapy will not be initiated if;-
- HB is below 10mg /dl
 - Neutrophils are high
 - Lymphocytes are low
 - HB is below 11mg/dl
17. Anti-rheumatoid drugs known to suppress the bone barrow is;-
- Cyclophosphamide
 - Chlorambucil
 - Methotrexate
 - Dexamethasone
18. Rapid acting insulin include;-
- Lente insulin
 - NPH insulin
 - Ultralente insulin
 - Insulin lispro
19. Glucose uptake in skeletal muscle is increased by;-
- Metformin
 - Thiazolidinediones

- c) Alpha-glucosidase inhibitors
- d) SGLT-2 inhibitors

20. Parenteral iron preparation include;-

- a) Ferrous sulphate,
- b) Sodium ferric gluconate
- c) Ferrous gluconate,
- d) Ferrous fumarate

SECTION II: SHORT ANSWER QUESTIONS (30 MARKS)

- 1. State four (4) classes of penicillins giving an example in each class (4 Marks)
- 2. State 4 factors that affect drug distribution (4marks) (4 Marks)
- 3. Describe the mechanism of action and side effects of Ceftriaxone (4 Marks)
- 4. Outline five (5) mechanisms of action of different classes of diuretic drugs giving examples for each (10 marks)
- 5. Using relevant examples, classify and explain drugs used for pain management (4 marks)

SECTION III: LONG ANSWER QUESTION – (20 MARKS)

- 1.
 - a) Using four examples for each, classify, explain mode of action and side effects of anticonvulsant drugs (12 marks)
 - b) Explain mode of action, side effects and antidote of two anticoagulant drugs (8 marks)