



**AMREF INTERNATIONAL UNIVERSITY  
SCHOOL OF MEDICAL SCIENCES  
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES  
MARCH 2024 SUPPLEMENTARY EXAMINATIONS**

**COURSE CODE BSN 222 TITLE: CLINICAL PHARMACOLOGY**

**DATE: 18<sup>TH</sup> MARCH 2024**

Duration: 2 HOURS

Start: 2:00 PM

Finish: 4:00 PM

**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.

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