



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
End of Semester December 2023 Examinations

PAPER 1

COURSE CODE BSN_222-TITLE: Clinical Pharmacology

UPGRADING

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 nurse will watch out for renal toxicity in a patient with which antifungal agent?
 - A. Clotrimazole
 - B. ketoconazole
 - C. Nystatin
 - D. Amphotericin B
2. Chelation is a drug interaction associated with:-
 - A. Aminoglycosides
 - B. Sulphonamides
 - C. Fluroquinolones
 - D. Tetracyclines
3. The drug that exhibits muscarinic activity and is primarily used in ophthalmology is:
 - A. Pilocarpine
 - B. Carbachol
 - C. Bethenechol
 - D. Methacholine
4. Phasic preparation in oral contraceptives refers to:-
 - A. Oestrogen and progesterone in a fixed ratio of doses
 - B. Two different types of pills with varying concentration of oestrogens and progesterone
 - C. Progesterone only pills
 - D. Estrogen only pills
5. Long acting glucocorticoids include:-
 - A. Dexamethasone
 - B. Prednisolone
 - C. Hydrocortisone
 - D. Cortisone
6. A second line anti-tuberculosis agent is
 - A. Cloxacillin
 - B. Benzyl penicillin
 - C. Gentamycin
 - D. Amikacin
7. Ethambutol is associated with
 - A. Red green colour blindness
 - B. Orange stain of body fluids
 - C. Peripheral neuropathy
 - D. Nephrotoxicity
8. A beta lactamase inhibitor is :
 - A. Clavulanic acid
 - B. Vancomicin'
 - C. Bacitracin

- D. Cycloserin
9. Tocolytic agents includes:
- A. Oxytocin
 - B. Ergometrine
 - C. Salbutamol
 - D. Misoprostol
10. Select the correctly matched anthelmintic agent and the worm it treats
- A. Mebendazole- Schistosomiasis
 - B. Praziquantel- Round worms
 - C. Diethylcabamazine (DEB)- Filariasis
 - D. Albedazole – Amoebiasis
11. Which one of the following drugs has both alpha selective and beta-blocking effects:
- A. Propranolol
 - B. Labetalol
 - C. Atenolol
 - D. Acebutolol
12. Abortifacient drugs includes:
- A. Oxytocin and ergometrine
 - B. Mifepristone and misoprostol
 - C. Misoprostol and oxytocin
 - D. Misoprostal and ergometrine
13. Antithyroid drug that inhibits conversion of T3 to T4:
- A. Methimazole
 - B. Carbimazole
 - C. Propylthiouracil
 - D. Iodides
14. Select the drug stimulating the protective function of the mucous barrier and the stability of the mucous membrane against damaging factors:
- A. Ranitidine
 - B. Sucralfate
 - C. Omeprazole
 - D. Misoprostol
15. Which of the following agent is a full antagonist of opioid receptors:
- A. Meperidine
 - B. Buprenorphine
 - C. Naloxone
 - D. Butorphanol
16. Antibiotic antitumor agents includes:
- A. Actinomycin
 - B. Azithromycin
 - C. Erythromycin
 - D. Gentamycin
17. Indicate the anxiolytic agent which relieves anxiety without causing marked sedative effects:

- A. Diazepam
- B. Chlordiazepoxide
- C. Buspirone
- D. Clorazepate

18. Indicate the competitive antagonist of benzodiazepine receptors:

- A. Zolpidem
- B. Flumazenil
- C. Temazepam
- D. Buspirone

19. In cancer management, antimetabolites includes :

- A. Fluorouracil
- B. Chloambucil
- C. Cisplastins
- D. Lamustine

20. Disease modifying anti-rheumatoid drugs include:

- A. Chloroquine
- B. Dexamethasone
- C. Prednisolone
- D. Methotrexate

SECTION II: SHORT ANSWER QUESTIONS (30 MARKS)

1. Outline Explain the four (4) broad classification of antibiotics based on mechanism of action giving example in each (8 marks)
2. State 4 nursing considerations when administering chemotherapy drugs (nurse, patient, during and after) (4 marks)
3. Explain the concept of bioavailability in relation to different routes of drug administration (4 marks)
4. Using appropriate examples, describe drugs used in the management of pain (4 marks)
5. Explain THREE (3) major classes of anti-hypertensive drugs, indicating their modes of action, clinical uses, example and appropriate dose for each (6 marks)
6. Outline four (4) factors that affect absorption of drugs (4 marks)

SECTION III: LONG ANSWER QUESTION – (20 MARKS)

1.
 - a) Enumerate five (5) mechanisms of action of anti-emetic drugs (5 marks)
 - b) Explain the mechanism of action of oral anti-diabetics giving examples in each (5mks)
 - c) Outline mechanism of action of four (4) anticonvulsant drugs (4 marks)
 - d) Explain the two (2) anticoagulant drugs giving the antidote for each, two (2) thrombolytic drugs and one (1) antiplatelet drug (6mks)

Commented [D1]: These are short answer questions. Consider testing either a system based drug or a broad category of drug classification like in SAQ 5