



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

COURSE CODE AND TITLE: BSM 222 Pharmacology

DATE: Thursday 7th August 2025

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.

1. A relatively pure alfa agonist causes all of the following effects EXCEPT: -
 - a) Increase peripheral arterial resistance
 - b) Increase venous return
 - c) Has no effect on blood vessels
 - d) Reflex bradycardia
2. Epinephrine is used in the treatment of all of the following disorders EXCEPT: -
 - a) Bronchospasm
 - b) Anaphylactic shock
 - c) Cardiac arrhythmias
 - d) Open-angle glaucoma
3. The following drugs is a nonselective beta receptor antagonist: -
 - a) Metoprolol
 - b) Atenolol
 - c) Propranolol
 - d) Acebutolol
4. A beta receptor antagonist which has very long duration of action is: -
 - a) Metoprolol
 - b) Propranolol
 - c) Nadolol
 - d) Pindolol
5. The following benzodiazepines is used mainly for hypnosis: -
 - a) Clonazepam
 - b) Lorazepam
 - c) Flurazepam
 - d) Midazolam
6. The most effective drug for stopping generalized tonic-clonic status epilepticus in adults is: -
 - a) Lamotrigine
 - b) Ethosuximide
 - c) Diazepam
 - d) Zonisamide

7. Aspirin be used prophylactically for: -
- a) Noncardiogenic pulmonary edema
 - b) Peptic ulcers
 - c) Thromboembolism
 - d) Metabolic acidosis
8. A atypical antipsychotic drug is: -
- a) Haloperidol
 - b) Clozapine
 - c) Thioridazine
 - d) Thiothixene
9. An antipsychotic drug having a muscarinic-cholinergic blocking activity is: -
- a) Chlorpromazine
 - b) Clorprothixene
 - c) Risperidone
 - d) Haloperidol
10. The following antidepressant is a selective serotonin reuptake inhibitor: -
- a) Phenelzine
 - b) Desipramine
 - c) Maprotiline
 - d) Fluoxetine
11. A leukotriene receptor antagonist is: -
- a) Sodium cromoglycate
 - b) Zafirlucast
 - c) Zileutin
 - d) Triamcinolone
12. Choose the drug which is a H₂-receptor antagonist: -
- a) Omeprazole
 - b) Pirenzepine
 - c) Carbenoxolone
 - d) Ranitidine
13. The drug that cause metabolic alkalosis is: -
- a) Sodium bicarbonate
 - b) Cimetidine
 - c) Pepto-Bismol

- d) Carbenoxolone
14. The drug belonging to anticoagulants of direct action is: -
- a) Aspirin
 - b) Heparin
 - c) Dicumarol
 - d) Phenprocoumon
15. The non-glycoside positive inotropic drug is: -
- a) Digoxin
 - b) Strophantin K
 - c) Dobutamine
 - d) Digitoxin
16. This drug is a Class IA antiarrhythmic drug: -
- a) Sotalol
 - b) Propranolol
 - c) Verapamil
 - d) Quinidine
17. All of the following calcium channel blockers are useful in the treatment of cardiac arrhythmias EXCEPT: -
- a) Bepridil
 - b) Diltiazem
 - c) Verapamil
 - d) Nifedipine
18. This drug is contraindicated in patients with bronchial asthma: -
- a) Propranolol
 - b) Clonidine
 - c) Enalapril
 - d) Nifedipine
19. An endocrine drug which is an amino acid derivative is: -
- a) Insulin
 - b) Hydrocortisone
 - c) Calcitonin
 - d) Thyroxine
20. Currently used oral hypoglycemic thiazolidinediones include the following, EXCEPT; -
- a) Pioglitazone (Actos)
 - b) Rosiglitazone (Avandia)

c) Troglitazone (Rezulin)

d) All of the above

SECTION II: SHORT ANSWER QUESTIONS (30 MARKS)

1. Classify diuretics stating their mechanism of action (8 Marks)
2. Describe the clinical uses of estrogen and the mechanism of action (8 Marks)
3. Classify the different anti cancer agents stating the mechanism of action of each (8 Marks)
4. Outline the side effects of insulin therapy (6 Marks)

SECTION III: LONG ANSWER QUESTION – (20 MARKS)

5. Discuss anaesthetics under the following:
 - a. Ideal anaesthetic (3 Marks)
 - b. Classification and mechanism of action (12 Marks)
 - c. Signs and stages of anaesthesia (5 Marks)