



Annual/Reappear (Year II) Examination May 2025

Programme: D. Pharm
Course: Pharmacology
Course Code: ER20-21T
Enrolment No: _____

Full Marks: 80
Time: 3 Hrs.

Section I

1. Objective type questions. Answer all questions. 1 x 20 = 20

- i. Which drug is used as an antidote for organophosphate poisoning?
a. Pilocarpine b. Physostigmine c. Atropine d. Propranolol
- ii. Which drug is commonly used for the symptomatic treatment of Myasthenia Gravis?
a. Atropine b. Propranolol c. Neostigmine d. Dicyclomine
- iii. Which of the following is an SSRI antidepressant?
a. Amitriptyline b. Fluoxetine c. Diazepam d. Chlorpromazine
- iv. Which of the following drugs is used in the treatment of supraventricular arrhythmias?
a. Digoxin b. Lidocaine c. Verapamil d. Propranolol
- v. Which drug inhibits vitamin K-dependent clotting factors?
a. Heparin b. Enoxaparin c. Warfarin d. Clopidogrel
- vi. Which antiplatelet agent acts by inhibiting ADP receptor on platelets?
a. Aspirin b. Clopidogrel c. Streptokinase d. Heparin
- vii. Which of the following is a thrombolytic agent used in myocardial infarction?
a. Aspirin b. Warfarin c. Streptokinase d. Protamine sulphate
- viii. A contraindication for anticoagulant therapy includes:
a. Stroke b. Deep vein thrombosis c. Active peptic ulcer d. Atrial fibrillation
- ix. Which of the following is a short-acting beta-2 agonist bronchodilator?
a. Salmeterol b. Ipratropium c. Salbutamol d. Montelukast
- x. Which drug forms a protective barrier over ulcers and is used as a cytoprotective agent?
a. Omeprazole b. Sucralfate c. Ranitidine d. Bismuth subsalicylate
- xi. Which of the following is a loop diuretic?
a. Spironolactone b. Hydrochlorothiazide c. Furosemide d. Amiloride
- xii. Vasopressin (ADH) is primarily used in the treatment of:
a. Diabetes mellitus b. Diabetes insipidus c. Hypertension d. Hyperkalaemia
- xiii. Levothyroxine is used in the treatment of:
a. Hyperthyroidism b. Hypothyroidism c. Diabetes mellitus d. Addison's disease
- xiv. Methimazole is used to treat:
a. Diabetes mellitus b. Hypothyroidism c. Hyperthyroidism d. Osteoporosis
- xv. Which of the following drugs is a leukotriene receptor antagonist used in asthma?
a. Salbutamol b. Montelukast c. Tiotropium d. Aminophylline
- xvi. Which drug is a proton pump inhibitor (PPI) used in peptic ulcer disease?
a. Ranitidine b. Omeprazole c. Sucralfate d. Antacid
- xvii. Which of the following is a second-generation antihistamine with minimal sedation?
a. Diphenhydramine b. Chlorpheniramine c. Loratadine d. Hydroxyzine
- xviii. Which of the following is a beta-lactam antibiotic?
a. Ciprofloxacin b. Penicillin G c. Erythromycin d. Tetracycline
- xix. Aminoglycosides can cause:
a. Nephrotoxicity and ototoxicity b. Hepatotoxicity c. Hyperkalaemia d. Constipation
- xx. Which drug is commonly used in tuberculosis therapy?
a. Amphotericin B b. Isoniazid c. Acyclovir d. Albendazole

Section II

2. Short Answer type questions. Answer any ten.

10 x 3 = 30

- a. Classify anti-convulsant drugs and write the mechanism of action of phenytoin.
- b. Write the pharmacological actions and clinical uses of nitro-glycerine.
- c. Discuss the physiological functions of thyroid hormones and outline two of their clinical applications.
- d. Define chemotherapy? Mention any two principles of chemotherapy.
- e. Define prostaglandins and mention their role in the human body.
- f. Define shock. Write briefly on drug therapy for hypovolemic and cardiogenic shock.
- g. What are the pharmacological actions and uses of atropine?
- h. Classify laxatives. Write indications and contraindications of stimulant laxatives.
- i. Mention two examples of fluoroquinolones and their clinical uses.
- j. Define and classify anti-arrhythmic drugs with one example from each class.
- k. Classify anti-ulcer drugs. Mention the mechanism of action and one example of a proton pump inhibitor.

Section III

3. Long Answer type questions. Answer any six.

6 x 5 = 30

- a. Explain the physiological functions and clinical applications of parathormone, calcitonin, and vitamin D in regulating calcium homeostasis.
- b. Discuss the physiological functions of histamine, serotonin (5-HT), and prostaglandins in biological systems.
- c. Categorize bronchodilators and discuss the pharmacological mechanisms of beta-2 adrenergic agonists, providing relevant examples.
- d. Write down the role of Blood-brain barriers on drug's effect. Write a short note on Plasma Binding Proteins.
- e. Write short notes on anti-fungal and anti-viral drugs with classification, examples, and uses.
- f. Describe the types of angina and the drugs used in its management. Mention the pharmacological actions of nitrates.
- g. Compare and contrast expectorants, mucolytics, and antitussives with examples and clinical uses.
