

Pharmacology and Toxicology Important Questions

D.Pharma 2nd year

Syllabus & Questions

Pharmacology D.Pharma 2nd Year Important Questions Chapter wise

Chapter-1

General Pharmacology

- Introduction and scope of Pharmacology
- Various routes of drug administration – advantages and disadvantages
- Drug absorption – definition, types, factors affecting drug absorption
- Bioavailability and the factors affecting bioavailability
- Drug distribution – definition, factors affecting drug distribution
- Biotransformation of drugs – Definition, types of biotransformation reactions, factors influencing drug metabolisms
- Excretion of drugs – Definition, routes of drug excretion

Questions:

- Define Pharmacology.
- Define the term
 - a. Pharmacokinetics
 - b. Pharmacodynamic
- What is scope in pharmacology?
- What are the various routes of drug administration?
- Write details note on Routes of administration.
- What are the advantages and disadvantages of intravenous route?
- What are the advantages and disadvantages of parenteral route of administration?

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- What is drug absorption?
- Explain Factors affecting drug Absorption.
- What are drug-food interactions, and how do they affect drug absorption?
- How do drug-drug interactions influence drug absorption?
- Define Bioavailability.
- Explain the difference between absolute and relative bioavailability?
- What is drug distribution.
- What is the blood-brain barrier (BBB)?
- Explain the brief note on biotransformation of drugs ?

Chapter-2

- **Drugs Acting on the Peripheral Nervous System**
- **Steps involved in neurohumoral transmission**
- **Definition, classification, pharmacological actions, dose, indications, and contraindications of**

- a) Cholinergic drugs
- b) Anti-Cholinergic drugs
- c) Adrenergic drugs
- d) Anti-adrenergic drugs
- e) Neuromuscular blocking agents
- f) Drugs used in Myasthenia gravis
- g) Local anaesthetic agents
- h) Non-Steroidal Anti Inflammatory drugs (NSAIDs)

Questions:

- Write details note on Neurotransmitters.
- Write the Define, classification, pharmacological action, Indication, contraindications, dose, of Any 5
 - a. Cholinergic drugs
 - b. Anti-Cholinergic drugs
 - c. Adrenergic drugs
 - d. Anti-adrenergic drugs
 - e. Neuromuscular blocking agents
 - f. Local anaesthetic agents
 - g. Non-Steroidal Anti Inflammatory drugs (NSAIDs)
- Write the short note on Myasthenia gravis.

Chapter-3

- **Drugs Acting on the Eye**
Definition, classification, pharmacological actions, dose, indications and contraindications of
- **Miotics**

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- **Mydriatics**
- **Drugs used in Glaucoma**

Questions:

- Write the details note on Miotics and Mydriatics
- Define the term miotics and mydriatics with examples.
- Write short Note on Glaucoma and Pharmacological action of Timolol.

Chapter-4

Drugs Acting on the Central Nervous System Definition, classification, pharmacological actions, dose, indications and contraindications of

- **General anaesthetics**
- **Hypnotics and sedatives**
- **Anti-Convulsant drugs**
- **Anti-anxiety drugs**
- **Anti-depressant drugs**
- **Anti-psychotics**
- **Nootropic agents**
- **Centrally acting muscle relaxants**
- **Opioid analgesics**

Questions:

- Classify the general anaesthesia and write the pharmacological actions on CNS.
- Define any Five with suitable example.
 - a. **General anaesthetics**
 - b. **Hypnotics and sedatives**
 - c. **Anti-Convulsant drugs**
 - d. **Anti-anxiety drugs**
 - e. **Anti-depressant drugs**
 - f. **Anti-psychotics**
 - g. **Nootropic agents**
- Write the Define, classification, pharmacological action, Indication, contraindications, dose, of Any 3
 - a. **Anti-Convulsant drugs**
 - b. **Anti-anxiety drugs**
 - c. **Anti-depressant drugs**
 - d. **Anti-psychotics**
 - e. **Nootropic agents**
- Discusses the note on Opioid Analgesics.
- Write the brief note on Centrally Acting Muscle Relaxant.

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Chapter-5

Drugs Acting on the Cardiovascular System Definition, classification, pharmacological actions, dose, indications and contraindications of

- **Anti-hypertensive drugs**
- **Anti-anginal drugs**
- **Anti-arrhythmic drugs**
- **Drugs used in atherosclerosis and Congestive heart failure**

Questions:

- Define anti-hypertensive drugs classify anti-hypertensive drugs with Example?
- Write short note on Furosemide, Thiazide, and Verapamil.
- Write the mechanism of action of Diuretics in hypertension.
- What is pharmacological actions, dose, indications and contraindications of
 - a. Furosemide
 - b. Thiazides
 - c. Eplerenone
 - d. Verapamil
 - e. Diltiazem
 - f. Nifedipin
 - g. Captopril
 - h. Lisinopril
 - i. Quinapril
- Classify the Anti-anginal drugs and write the pharmacological actions on CNS.
- Write the brief note on Nitrates.
- Classify the Anti-arrhythmic drugs.
- Define Arrhythmias.
- Write the details note on Quinidine
- What is the symptom of Atherosclerosis?
- Define Atherosclerosis.
- Classify Drugs used in atherosclerosis.
- Write details note on Congestive heart failure.

Chapter-6

Drugs Acting on Blood and Blood Forming Organs Definition, classification, pharmacological actions, dose, indications and contraindications of

- **Hematinic agents**
- **Anti-coagulants**
- **Anti-platelet agents**
- **Thrombolytic drugs**

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Questions:

- Write Details note on Definition, classification, pharmacological actions, dose, indications and contraindications of
 1. Hematinic agents
 2. Anti-coagulants
 3. Anti-platelet agents
 4. Thrombolytic drugs
- Define Anemia.
- Write the short note on Heparin.
- Write the details note on Aspirin.

Chapter-7

Definition, classification, pharmacological actions, dose, indications and contraindications of

- **Bronchodilators**
- **Expectorants**
- **Anti-tussive agents**
- **Mucolytic agents**

Questions:

- Define Bronchodilators and classify.
- Write details note on Salbutamol.
- Define Expectorants with example.
- Classify Anti-tussive agents with example.
- Define Mucolytic.

Chapter-8

Drugs Acting on the Gastro Intestinal Tract

Definition, classification, pharmacological actions, dose, indications and contraindications of

- Anti-ulcer drugs
- Anti-emetics
- Laxatives and purgatives
- Anti-diarrheal drugs

Questions:

- Define Anti-Ulcer Drugs? Write the classification, pharmacological action, Indication, contraindications, dose, of Anti-Ulcer Drugs.
- What are emetics? Give Example.
- Write indication and contraindications of Laxatives and purgatives.
- Write Pharmacological Action of Omeprazole.

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- What is the uses of Amoxicillin.
- Write short note on Ranitidine.
- Define anti-diarrheal drugs.

Chapter-9

Drugs Acting on the Kidney

Definition, classification, pharmacological actions, dose, indications, and contraindications of

- **Diuretics**
- **Anti-Diuretics**

Questions:

- Define Diuretics.
- Classify diuretics and write the details note on furosemide.
- Classify anti-diuretics and write the details note on Thiazides and desmopressin.

Chapter-10

Hormones and Hormone Antagonists Physiological and pathological role and clinical uses of

- Thyroid hormones
- Anti-thyroid drugs
- Parathormone
- Calcitonin
- Vitamin D
- Insulin
- Oral hypoglycemic agents
- Estrogen
- Progesterone
- Oxytocin
- Corticosteroids

Questions:

Define the pharmacological and pathological role of any three.

- a) Insulin.
- b) Vitamin D.
- c) Progesterone.
- d) Corticosteroids.

Write the physiological and pathological role of any Three hormone

- a) Estrogen

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- b) Thyroid hormones.
- c) Oxytocin
- d) Oral hypoglycemic agents

Define the term Hormones and Hormone Antagonists.

Write the details note on Thyroid Hormones.

Chapter-11

Autacoids

- Physiological role of Histamine, 5 HT and Prostaglandins
- Classification, clinical uses and adverse effects of antihistamines and 5 HT antagonists

Questions:

What is the physiological role of histamine in autacoids?

What are the clinical uses of autacoids?

What are lists of the antagonists in autacoids?

Describe the term

- 5HT (Serotonin)
- 5-HT Antagonists
- Prostaglandins

Chapter-12

Chemotherapeutic Agents:

Introduction, basic principles of chemotherapy of infections, infestations and neoplastic diseases, Classification, dose, indication and contraindications of drugs belonging to

- Penicillins
- Cephalosporins
- Aminoglycosides
- Fluoroquinolones
- Macrolides
- Tetracyclines
- Sulphonamides
- Anti-tubercular drugs
- Anti-fungal drugs
- Anti-viral drugs
- Anti-amoebic agents
- Anthelmintics

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- Anti-malarial agents
- Anti-neoplastic agents

Questions:

Write detail about any Four chemotherapeutic agents.

- Penicillin's.
- Aminoglycosides.
- Sulphonamides.
- Anti-neoplastic agents
- Anti-tubercular drugs

Write the details note on Cephalosporins.

Write short note on Ciprofloxacin.

Write detail about any Six chemotherapeutic agents.

- Anti-fungal drugs
- Anti-viral drugs
- Anti-amoebic agents
- Anthelmintics
- Anti-malarial agents
- Aminoglycosides
- Fluoroquinolones
- Macrolides
- Tetracyclines

Chapter-13

Biologicals

Definition, types and indications of biological agents with examples

Questions:

- Define Biologicals and their Types.
- Write the Indication of Biological Agents with examples.

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