

PHARMACOLOGY

PHARMACOLOGY

UNIT - I

- ① Discuss various routes of drug administration. Elaborate advantages & disadvantages of oral route.
- ② Define Pharmacokinetics & write in detail about ADME & factors affecting ADME.
- ③ What is Biotransformation / Metabolism. Describe the significance of plasma protein binding. Explain Phase I, Phase II reactions.
- ④ Define absorption & various factors affecting absorption.

UNIT - II

- ① Define Pharmacodynamics & write principle & mechanism of drug action.
- ② Define signal transducer mechanism in detail.
- ③ What is Pharmacovigilance. Explain different phases of clinical trials in detail.
- ④ Explain in detail factors modifying drug action.
- ⑤ Write in detail about G-Protein coupled receptors.
- ⑥ Write the principle & mechanism of drug action.
- ⑦ Write a short note on combined effect of drugs.
Write a short note on theory & classification of receptors.

UNIT 3

- ① Classify Sympathomimetic drugs. Give pharmacological action, adverse effect & uses of adrenaline.
- ② Define Local Anaesthetic Agents, their classification. Write a note on pharmacology of Lidocaine.
- ③ Describe Neurohumoral transmission & CO transmission.
- ④ Classify peripherally-acting skeletal muscle relaxants.
- ⑤ Explain drugs used in Glaucoma & Myasthenia Gravis.

UNIT-4

- ① Classify Antiepileptic drugs & their mechanism of action. Explain pharmacology of sodium valproate.
- ② Classify Sedatives, Write the difference b/w Benzodiazepines & Barbiturates.
- ③ Explain various stages of Anaesthesia, difference b/w General & local anaesthetics & Explain Preanaesthetic medications.

UNIT-5

- ① Write down the classification of Anti-depressants & Anti-anxiety drugs.
- ② Classify drugs for Parkinson's disease. Pharmacology of Levodopa.
- ③ Write a short note on narcotic & anti-narcotic drugs.
- ④ Explain opioid receptors, describe pharmacological effects, mode of action & use of morphine.
- ⑤ Write pharmacology of Propranolol.