

# MEDICINAL CHEMISTRY - II

## UNIT - I

- ① Define and Classify Antihistaminic Agents . Give structure, synthesis and SAR of Diphenhydramine or  
• List the Histamine H<sub>2</sub> receptor antagonist . Give SAR of H<sub>1</sub> & H<sub>2</sub> receptor blockers or (V)
- Classify H<sub>1</sub> Antagonist . Explain mechanism of action of Meclizine and Cimetidine .
- ② Explain in detail about Gastric Proton Pump Inhibitors . (V)
- ③ Classify Antineoplastic Agents or  
• Describe Alkylating Agents or (V)
- Define Antimetabolites , Describe synthesis & MOA of Methotrexate .

## UNIT - II

- ① Define and classify Antianginal Agents . or  
• Define Calcium Channel Blockers . or (U)
- Define MOA & synthesis of Nitroglycerin .
- ② Define & Classify Diuretics . Give synthesis & MOA of Acetazolamide or  
• Describe Carbonic Anhydrase Inhibitors . or
- Describe Thiazide Diuretics , Define MOA & uses of Chlorthalidone & Hydrochlorthalidone (U)
- ③ Describe in detail about Antihypertensive Agents or  
• Explain MOA & structure of ACE Inhibitors or (U)
- Explain synthesis & MOA of Methyl dopa Hydrochloride .

## UNIT - III

- ① Define and Classify Antiarrhythmic Drugs . Give the synthesis & MOA of Disopyramide Phosphate and Lidocaine Hydrochloride.
- ② Define Anti - Hyperlipidemic Agents or  
Define HMG- Co-A reductase Inhibitors or (V)  
Define Bile Acid Sequestrants . Give structure , MOA and uses of Cholestyramine & Cholestipol .
- ③ Define Oral Anticoagulants . Write SAR of Coumarin derivatives or (V)  
Define structure, synthesis and uses of Warfarin .
- ④ What is CHF . Detail Cardiac Glycosides with structure Or (V)  
Define MOA & uses of Digoxin

## UNIT - IV

- ① Define nomenclature and stereochemistry of steroids (U)
- ② Describe in detail about Oral Contraceptives . (V)
- ③ Define MOA & uses of drugs used in Erectile Dysfunction or  
Write about PDE5 Inhibitors . Draw structure & uses of Sildenafil & Tadalafil .
- ④ Define Antithyroid Drugs .

## UNIT - V

- ① Describe in detail about Antidiabetic Agents or  
Define MOA & uses of Sulfonylureas or  
Describe in detail about Biguanide derivatives. or (U)  
Describe in detail about Glucosidase Inhibitors or  
Write in detail about Thiazolidinediones. Give structure, synthesis  
and uses of Tolbutamide
- ② What are Local Anaesthetics. Give MOA & SAR of local anaesthetics  
Give synthesis of Benzocaine and Procaine. or (U)  
Describe in detail about synthesis & MOA of Dibucaine.