

B.SC (Final Year) VI-semester
Medicinal Chemistry, Paper-VI
Questions

Unit-1 (Introduction and Terminology)

- 1) What are diseases? Write about types of diseases?
- 2) Define the following terms:
a) Pharmacology b) Pharmacodynamics c) Pharmacokinetics
d) Pharmacophore
- 3) Write about metabolites and antimetabolites?
- 4) Write the nomenclature of drugs (Generic name, Trade name, chemical names).
- 5) Explain classification of drugs based on the structure and therapeutic activity with examples?
- 6) Write briefly about ADME of drugs?

Unit-II (Enzymes and Receptors)

- 7) What is Enzyme catalysis? Explain their factors affecting (characteristics) of the Enzyme catalysis reactions?
- 8) What is Enzyme inhibition? Explain about Reversible Irreversible inhibition with examples?
(or)

Explain about competitive, Non-competitive and uncompetitive inhibition and irreversible inhibition?

- 9) Write briefly about agonists and antagonists?

(10) Explain the mechanism of drug action?

(or)
Explain about Transporters and Ion channels?

(11) Explain the Role of -OH, -NH₂, double bond and Quaternary Ammonium ion in structure activity relationship of a drug?

(12) Explain the structure - activity relationship of Sulphonamide?

Unit - III :- (Synthesis and Therapeutic Activity of Drugs)

(13) What are chemotherapeutic drugs?

(14) Explain synthesis and drug action of

(i) Sulphonamide (ii) Dapsone.

(15) Write a short note on penicillin and their classification of Penicillin?

(16) Give the synthesis and uses of the following drugs.

(i) Chloroquine (ii) Isoniazide (iii) cisplatin.

(17) What are Antidiabetic drugs? Give the synthesis of Tolbutamide?

(18) What are Anti-inflammatory drugs? Give the synthesis of Ibuprofen?

(19) Write the synthesis and action of

(1) paracetamol (2) Aspirin (3) omeprazole.

1) what are cardiovascular drugs? Give the synthesis of Glycerol Nitrate?

(21) Write a short note on Anaesthetics?

Unit IV :- (Molecular Messengers and vitamins and micronutrients)

(22) what are vitamins? Explain water soluble, fat soluble vitamins?

(23) Explain micronutrients briefly with examples?

(24) what is Thyroid Hormone? Explain Antithyroid drug - carbimazole?

(25) Explain Adrenergic drugs

(i) salbutamol (or) Albuterol (ii) Atenolol.

(26) Explain serotonins? and discuss SSRI'S Drug Fluoxetine?

(27) Explain Dopamine? discuss structure, synthesis, therapeutic activity of L-Dopa?

==o==