

Important Questions - Chemistry VI semester.

- 1) What is a disease? Discuss its types.
- 2) Define the following terms.
 - (a) Drug
 - (b) Pharmacology
 - (c) Pharmacokinetics
 - (d) Metabolite
 - (e) Antimetabolite.
 - (f) pharmacophore.
- 3) Give a note on the nomenclature of drugs.
- 4) Explain the classification of drugs based on its therapeutic activity.
- 5) Write a note on active & passive absorption.
- 6) Discuss phase-I & phase-II Metabolism.
- 7) Write a note on Renal Elimination. & Toxicity of drugs.
- 8) Explain the factors affecting enzyme action.
- 9) Discuss briefly about the specificity of enzyme action.
- 10) What are enzyme inhibitors? Explain the types.
- 11) Discuss the concept of agonist & antagonist.
- 12) Explain SAR by taking Sulfonamide as an example.
- 13) Give the synthesis & therapeutic activity of the following drugs.
 - (a) Sulphanilamide
 - (b) Penicillin-G
 - (c) Chloroquine
 - (d) AZT

14) Explain the synthesis & therapeutic activity of
a) Tolbutamide b) Ibuprofen c) Paracetamol d) Omeprazole.

15) Define Anaesthetics? Discuss its classification in detail.

16) Write a note on hormones & neurotransmitters.

17) Discuss the synthesis & therapeutic activity of
a) Salbutamol b) Atenolol. c) Adrenaline.

18) Give the synthesis of Serotonin, ^{L-Dopa} & Dopamine. And discuss SSRIs.

19) Discuss the sources, deficiency disorders & remedies of vitamin A, C, D & K.

20) Discuss the following micronutrients.

a) Na b) Ca c) Zn d) I. e) Cu.