

## QUESTION BANK (Descriptive)

**Subject: Pharmacology I (Theory)**

**Year and Sem: S. Y. B. Pharm. Sem IV Rev. 2019**

1. Define drug distribution. Enlist various factor affecting drug distribution. Add a note on Blood-brain barrier and plasma protein binding.
2. Classify the phases of metabolism. Explain the phase- I of metabolism and add a note on enzyme induction.
3. Mention the receptor theories and explain two state theory of receptor. Write a note on the principle of drug action.
4. Enlist various phases of clinical trial. And write the scope and objectives of pharmacovigilance.
5. Define parasympathomimetics. Classify them and add a detailed note on pharmacology of Cholinergic agonist.
6. Classify the general anesthetics with a detailed mechanism of action of each class. Explain diffusion hypoxia and the drug causing the same.
7. Explain sedation and hypnosis. Discuss in detail classification, side effect and therapeutic uses of benzodiazepines.
8. Classify the barbiturates and discuss in detail nonbarbiturate anxiolytics
9. Write a note on:
  - A) Role of lithium in bipolar disorder.
  - B) Selective serotonin reuptake inhibitors.
10. Classify antipsychotics and Discuss in detail typical antipsychotics.
11. Classify anticholinergics. Give the detailed account of any two classes. Write the uses of anticholinergics.
12. Define metabolism. Enlist various Phase I and Phase II reactions. Add a note on enzyme induction and inhibition.
13. Classify anti-epileptics. Give the mechanism of action and adverse effects of Phenytoin and Valproic acid.
14. A) Define absorption. Add a note on factors affecting absorption.
14. B) Give the advantages and disadvantages of the oral route.
15. Classify the receptors along with the examples. Explain in brief ion channel receptors.
16. What are sympatholytics? Classify them and add a note on the treatment of Glaucoma.
17. Give mechanism of action and anyone therapeutic use of the following drugs: Thiopental, Disulfiram, Ketamine, and Baclofen.
18. Classify the receptors with examples. Write about the structure of G-protein coupled receptors and discuss signal transduction mechanisms pathways of GPCR.
19. Classify antidepressants. Discuss in detail any two classes of antidepressants.
20. Classify muscle relaxants with examples. Write a detailed note on peripherally acting muscle relaxants.
21. Classify general anaesthetics and discuss in detail halogenated anaesthetics. Comment on Preanesthetic agents.
22. A) Discuss the mechanism of action, adverse effects, and therapeutic application of Chlorpromazine.
22. B) Write a note on the pharmacotherapy of Alzheimer's disease.
23. Classify Opioid analgesics. Explain the pharmacology of Morphine.
24. A) Enlist the types of the receptor along with the example. Explain in brief about enzyme-linked receptors.
24. B) Explain various factors modifying drug action.
25. Classify local anaesthetics. Discuss the mechanism of action and routes of administration.
26. Classify Sedative-Hypnotics. Compare and contrast between barbiturates and benzodiazepines. Enlist the therapeutic uses of both classes.
27. A) What is pharmacokinetics? Write a note on various mechanisms of membrane transport.
27. B) Enlist the various routes of administration. Explain any two routes in detail with suitable examples.