



Question bank - Unit 1

- * Introduction and scope of Pharmacology
- * Routes of drug administration (advantages & disadvantages)
- * Drug absorption (definition, types, factors)
- * Bioavailability and factors affecting it
- * Drug distribution (definition, factors)
- * Biotransformation of drugs (types, factors influencing metabolism)
- * Excretion of drugs (routes)
- * Mechanisms of drug action
- * Factors modifying drug action

Question Bank for Unit–1 (General Pharmacology):

2 Marks Questions (20)

1. Define Pharmacology. MRB: 2022
2. List any two advantages of intravenous route of administration. MRB: 2022
3. Write two disadvantages of oral route of administration. MRB: 2022
4. Define drug absorption. MRB: 2022
5. Name two factors affecting drug absorption. MRB: 2022
6. Define bioavailability. MRB: 2023
7. Give two examples of drugs with low oral bioavailability. MRB: 2022
8. Define drug distribution. RRB: 2015
9. Write any two factors affecting drug distribution. RRB: 2019
10. Define biotransformation. RRB: 2023
11. Name the two main types of biotransformation reactions. RRB: 2024
12. Give two examples of Phase I reactions. RRB: 2017

13. Define drug excretion. RRB: 2015
14. List two routes of drug excretion. MRB: 2022
15. Define pharmacokinetics. MRB: 2020
16. Define pharmacodynamics. MRB: 2019
17. Write any two general mechanisms of drug action.
18. What is meant by half-life of a drug? MRB: 2024
19. Define first-pass metabolism. MRB: 2020
20. Mention any two factors modifying drug action. MRB: 2020

5 Marks Questions (10)

1. Explain the advantages and disadvantages of oral route of drug administration. RRB: 2015, 2024
2. Describe the factors affecting drug absorption. RRB: 2019
3. Define and explain bioavailability. What are the factors affecting it?
4. Discuss the factors affecting drug distribution. RRB: 2019
5. Explain the types of biotransformation reactions with examples. MRB: 2020
6. Describe the factors influencing drug metabolism. MRB: 2020
7. Write a note on renal excretion of drugs. RRB: 2015, 2024
8. Explain different mechanisms of drug action with examples. MRB: 2017
9. Describe the factors modifying drug action. RRB: 2019
10. Write a note on the scope of Pharmacology. MRB: 2020

MCQs (10)

1. Which of the following routes avoids first-pass metabolism? MRB: 2022
 - a) Oral
 - b) Sublingual
 - c) Rectal
 - d) Intramuscular

Answer: b) Sublingual

2. The extent and rate of drug reaching systemic circulation is called: MRB: 2023

- a) Distribution
- b) Absorption
- c) Bioavailability
- d) Excretion

Answer: c) Bioavailability

3. Phase I reactions mainly involve: MRB: 2022

- a) Conjugation
- b) Oxidation, Reduction, Hydrolysis
- c) Sulfation
- d) Glucuronidation

Answer: b) Oxidation, Reduction, Hydrolysis

4. Which is the primary organ for drug metabolism? MRB: 2022

- a) Kidney
- b) Liver
- c) Lung
- d) Spleen

Answer: b) Liver

5. Which route of drug administration provides 100% bioavailability? MRB: 2017

- a) Oral
- b) Sublingual
- c) Intravenous
- d) Intramuscular

Answer: c) Intravenous

6. The major route of drug excretion is through: RRB: 2015

- a) Kidney
- b) Lung
- c) Sweat
- d) Saliva

Answer: a) Kidney

7. First-pass metabolism occurs mainly in: RRB: 2015

- a) Liver
- b) Kidney
- c) Lungs
- d) Heart

Answer: a) Liver

8. Pharmacokinetics deals with: RRB: 2017

- a) Drug action on the body
- b) Body's effect on the drug
- c) Drug-receptor interaction
- d) Therapeutic uses

Answer: b) Body's effect on the drug

9. Which of the following factors can modify drug action? RRB: 2025

- a) Age
- b) Body weight
- c) Disease state
- d) All of the above

Answer: d) All of the above

10. The process of drug removal from the body is called: RRB: 2025

- a) Absorption
- b) Distribution
- c) Excretion
- d) Metabolism

Answer: c) Excretion