



**Dr. Arvind Kumar Gupta**  
**(M.Pharm, PDCR, PGDMM & Ph.D)**  
GATE 2003 Qualified with 97.2 percentile  
**Dr. S. N. Dev College of Pharmacy**  
**Shamli (U.P.)**

**OFFICE:** BUILDING No. 3/314, OFFICE-1, GAUSHALA ROAD, SHAMLI DISTRICT SHAMLI (U.P.) – 247776

**Mobile:** +91-9719638415

**Email:** arindrkgit@gmail.com

**Course Name : D. Pharm**

**Year : Second Year**

**Subject Name : Pharmacology**

**Topic Name : Drug Distribution**

**MULTIPLE CHOICE QUESTIONS**

1. What is the term for the movement of drugs from the bloodstream to the tissues?

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

**Answer: b)** Distribution

2. Which of the following factors affects drug distribution?

- a) Lipid solubility
- b) Protein binding
- c) pH
- d) All of the above

**Answer: d)** All of the above

3. What is the term for the proportion of drug bound to plasma proteins?

- a) Bioavailability
- b) Clearance
- c) Protein binding
- d) Volume of distribution

**Answer: c)** Protein binding

4. Which of the following drugs has high protein binding?

- a) Aspirin
- b) Warfarin
- c) Diazepam
- d) Penicillin

**Answer: b)** Warfarin

5. What is the term for the movement of drugs across cell membranes?

- a) Passive transport
- b) Active transport
- c) Facilitated transport
- d) Osmosis

**Answer: a)** Passive transport

6. Which of the following drugs is distributed widely throughout the body?

- a) Tetracycline
- b) Ampicillin
- c) Erythromycin
- d) Digoxin

**Answer: d)** Digoxin

7. What is the term for the volume of fluid in which a drug is uniformly distributed?

- a) Volume of distribution
- b) Clearance
- c) Half-life
- d) Bioavailability

**Answer: a)** Volume of distribution

8. Which of the following drugs has a large volume of distribution?

- a) Tetracycline
- b) Ampicillin
- c) Erythromycin
- d) Chloroquine

**Answer: d)** Chloroquine

9. What is the term for the process by which drugs are transported out of the liver and into the bile?

- a) Hepatic metabolism
- b) Hepatic excretion
- c) Biliary excretion
- d) Enterohepatic circulation

**Answer: c)** Biliary excretion

10. Which of the following drugs undergoes enterohepatic circulation?

- a) Tetracycline
- b) Ampicillin
- c) Erythromycin
- d) Oral contraceptives

**Answer: d)** Oral contraceptives

11. What is the term for the movement of drugs from the bloodstream to the liver?

- a) Hepatic uptake
- b) Hepatic metabolism
- c) Hepatic excretion
- d) First-pass effect

**Answer: a)** Hepatic uptake

12. Which of the following drugs is metabolized by the liver?

- a) Tetracycline
- b) Ampicillin
- c) Erythromycin
- d) All of the above

**Answer: d)** All of the above

**13.** What is the term for the study of the relationship between drug concentration and effect?

- a) Pharmacokinetics
- b) Pharmacodynamics
- c) Pharmaceutics
- d) Clinical pharmacology

**Answer: b)** Pharmacodynamics

**14.** Which of the following drugs has high lipid solubility?

- a) Tetracycline
- b) Ampicillin
- c) Erythromycin
- d) Diazepam

**Answer: d)** Diazepam

**15.** What is the term for the process by which drugs are eliminated from the body?

- a) Excretion
- b) Metabolism
- c) Clearance
- d) Elimination

**Answer: d)** Elimination

**16.** Which of the following drugs is excreted unchanged in the urine?

- a) Tetracycline
- b) Ampicillin
- c) Erythromycin
- d) Penicillin

**Answer: d)** Penicillin

**17.** What is the term for the study of the movement of drugs across biological membranes?

- a) Pharmacokinetics
- b) Pharmacodynamics
- c) Pharmaceutics
- d) Transport phenomena

**Answer: d)** Transport phenomena

**18.** Which of the following drugs is transported by active transport?

- a) Tetracycline
- b) Ampicillin
- c) Erythromycin
- d) Digoxin

**Answer: d)** Digoxin

**19.** What is the term for the process by which drugs are converted to active metabolites?

- a) Bioactivation
- b) Bioavailability
- c) Biotransformation
- d) Biodegradation

**Answer: a)** Bioactivation

**20.** Which of the following drugs is converted to an active metabolite?

- a) Tetracycline
- b) Ampicillin
- c) Erythromycin
- d) Codeine

**Answer: d)** Codeine