

# Pharmacology (औषधि विज्ञान)

**Q1.** Which phase of pharmacokinetics involves the movement of a drug from the site of administration into the bloodstream?

- A. Distribution
- B. Metabolism
- C. Absorption
- D. Elimination

**Correct Answer: C. Absorption**

**Q2.** The first-pass effect refers to:

- A. Initial drug excretion via kidneys
- B. Rapid action of intravenous drugs
- C. Hepatic metabolism of orally administered drugs before systemic circulation
- D. Absorption bypass in sublingual drugs

**Correct Answer: C. Hepatic metabolism of orally administered drugs before systemic circulation**

**Q3.** Which class of drugs inhibits the enzyme cyclooxygenase (COX), reducing inflammation and pain?

- A. Beta-blockers
- B. NSAIDs
- C. Antihistamines
- D. Anticholinergics

**Correct Answer: B. NSAIDs**

**Q4.** Which drug is the antidote for morphine overdose?

- A. Flumazenil
- B. Naloxone
- C. Atropine
- D. Acetylcysteine

**Correct Answer: B. Naloxone**

**Q5.** A drug with a **narrow therapeutic index** (NTI) requires:

- a) No special monitoring during therapy
- b) Frequent monitoring of drug levels in blood
- c) Administration only in emergency conditions
- d) Use only for short-term treatment

**Correct Answer: b) Frequent monitoring of drug levels in blood**

**Q6.** Which term describes the maximal response achievable from a drug?

- A. Potency
- B. Half-life
- C. Efficacy
- D. Bioavailability

**Correct Answer: C. Efficacy**

**Q7.** Which of the following routes provides the fastest drug action?

- A. Intramuscular
- B. Oral
- C. Intravenous
- D. Subcutaneous

**Correct Answer: C. Intravenous**

**Q8.** Which class of drugs is commonly used in the treatment of hypertension and heart failure by inhibiting angiotensin-converting enzyme?

- A. Calcium channel blockers
- B. ACE inhibitors
- C. Diuretics
- D. Beta-agonists

**Correct Answer: B. ACE inhibitors**

**Q9.** Which type of drug interaction occurs when two drugs produce a combined effect greater than the sum of their individual effects?

- A. Antagonism
- B. Potentiation
- C. Synergism
- D. Tolerance

**Correct Answer: C. Synergism**

**Q10.** Which of the following is a schedule H drug under Indian Drug Rules and must be dispensed only on prescription?

- A. Paracetamol
- B. Ciprofloxacin
- C. Vitamin C
- D. Antacids

**Correct Answer: B. Ciprofloxacin**