



- 10) Drug ----- refers to study of process occurring after absorption of drug.
  - a) Absorption
  - b) Metabolism
  - c) Disposition
  - d) None
- 11) The process of engulfing of particulate material is called -----
  - a) Pinocytosis
  - b) Phagocytosis
  - c) Connecting transport
  - d) Facilitated diffusion
- 12) Which one of the following has very low perfusion rate?
  - a) Fats and bone
  - b) Muscle and skin
  - c) Lungs and kidney
  - d) Liver and Heart
- 13) Which route of drug administration show 100% bioavailability?
  - a) Oral
  - b) Intravenous
  - c) Rectal
  - d) Topical
- 14) In which model compartment are joined in series?
  - a) Compartment model
  - b) Catenary model.
  - c) Physiologic model
  - d) Mamillary model
- 15) The ratio of loading dose to maintenance dose is called.
  - a) Fluctuation
  - b) Dose ratio
  - c) Dosage regimen
  - d) Steady state
- 16) Under non-sink condition dissolution order is
  - a) Zero order
  - b) First order
  - c) Second order
  - d) Pseudo order
- 17) Primary binding site for albumin is ----- binding site.
  - a) Warfarin
  - b) Diazepam
  - c) Digitoxin
  - d) Tamoxifen
- 18) Bioavailability of drug from topical administration is affected by -----
  - a) Skin condition
  - b) Topical vehicle
  - c) Application condition
  - d) All of the above
- 19) Half life of zero-order process is proportional to ----- of drug.
  - a) Initial concentration
  - b) Final concentration
  - c) Both a and b
  - d) None
- 20) As per BCS system, class I drug comes under.
  - a) High solubility high permeability
  - b) Low solubility high permeability
  - c) High solubility low permeability
  - d) Low solubility low permeability

2. Long answer questions solve **any two**.

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- a) Write in detail factor affecting protein drug binding & significance of protein / tissue binding of drug.

- b) Enlist factor affecting absorption and explain in detail patient related factor affecting drug absorption.
- c) Discuss the non-renal route of drug execution.

3. Short answer question solve **any seven**.

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- a) Describe about Physiological model.
- b) Write a note on Renal clearance.
- c) Write a factor causing Non linearity.
- d) Write in short Pharmacokinetic model.
- e) Write In-Vitro drug dissolution testing model.
- f) Explain in brief about theories of drug dissolution.
- g) Write a short note on pH Partition hypothesis and give its limitation
- h) Explain Michaelis Menton equation
- i) What is compartment model? Explain in detail compartment model.

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