

1. **Passage of drugs through cell membranes is influenced by:**
 - A. Its mechanism of action
 - B. Its lipid solubility XXX
 - C. Its water solubility
 - D. Its dose

2. **All the following about rectal administration are true, EXCEPT:**
 - A. Produce local effects
 - B. Produce systemic effects
 - C. Increase hepatic metabolism of drugs XXX
 - D. Useful in patients who are unable to take medication by mouth

3. **The main site for plasma protein binding is:**
 - A. Globulin
 - B. Albumin XXX
 - C. Transferrin
 - D. α and β lipoproteins

4. **All the following statements about suxamethonium are true, EXCEPT:**
 - A. Produce muscle pain after surgery as an adverse effect
 - B. Produce malignant hyperthermia after surgery as an adverse effect
 - C. Produce prolonged apnoea as an adverse effect
 - D. Is a competitive neuromuscular blocker

5. **Milk ingested, interferes with the absorption of:**
 - A. Prednisolone
 - B. Verapamil
 - C. Tetracycline XXX
 - D. Aspirin

6. **All the following about administration by inhalation are correct, EXCEPT:**
 - A. The drug serving as rout of administration and elimination
 - B. Producing effect almost as rapidly as IV injection
 - C. Use for drugs are gases
 - D. The bioavailability is 100% XXX

7. **All the following drugs are eliminated by zero-order kinetics, EXCEPT:**
 - A. Aspirin
 - B. Salbutamol XXX
 - C. Ethanol
 - D. Phenytoin

8. **All the following statements about drug kinetics are true EXCEPT:**
 - A. Aspirin is lipid soluble in acidic media
 - B. Absorption is good for lipid soluble drugs
 - C. Plasma half-life is the time needed for drug blood level to become zero XXX
 - D. Steady-state drug blood level is reached after 5 half lives

9. One of the following drugs is sample of active drug converted to active metabolite:

- A. Enalapril
- B. Codeine
- C. Diazepam XXX
- D. Bacampicillin

10. All the following factors are necessary for the distribution of drugs to the tissues, EXCEPT:

- A. Size of the organs
- B. Blood flow
- C. First pass metabolism XXX
- D. Solubility

11. All the following factors affect $t_{1/2}$ of drugs, EXCEPT:

- A. Rate of absorption XXX
- B. Store in fatty tissues
- C. Liver disease
- D. Binding to plasma protein

12. All the following are types of receptors, EXCEPT:

- A. Receptors linked to gene amino acid transcription XXX
- B. Channel-linked
- C. G-protein coupled
- D. Kinase-linked

13. One of the following is the definition of potency:

- A. Is the linear zone between 25-75% of dose of agonist
- B. Is the effective concentration which gives 50% of response XXX
- C. Is the linear zone between 25-75% of response measures
- D. Is the maximal or highest point of response

14. All the following are statement about sublingual administration are true, EXCEPT:

- A. Useful for highly water soluble drugs and unstable of gastric pH XXX
- B. Useful when a rapid response is required
- C. Avoid hepatic circulation
- D. Useful for drugs highly metabolized by the liver

15. All the following definitions are true, EXCEPT:

- A. Antagonist drugs binds to receptors without initiating changes
- B. Agonist drugs binds to receptors & activates them
- C. Agonist drugs competes with the antagonist for the same receptors in pharmacological antagonism
- D. Agonist drugs are not able to displace the antagonist from the receptor in physiological antagonism XXX

16. An example of a drug with a very moderately protein binding is:

- A. Phenytoin XXX
- B. Amitriptyline

- C. Ibuprofen
- D. Timolol

17. All the following statement are true, **EXCEPT**:

- A. The age over 60 years may predispose to adverse drug reactions
- B. Genetic factors can increase the risk of adverse reaction to drugs
- C. Heart disease increase risk of developing adverse drug reactions XXX
- D. Renal disease increase risk developing adverse drug reactions

18. All of the following drugs should be avoided during pregnancy, **EXCEPT**:

- A. Tetracycline
- B. Thalidomide
- C. Warfarin
- D. Codeine XXX

19. All of the following drugs affect newborn infants, **EXCEPT**:

- A. Morphine
- B. Ampicillin XXX
- C. Chloramphenicol
- D. Aspirin

20. All the following side effects of cholinomimetics are correct, **EXCEPT**:

- A. Constipation
- B. Excessive salivation
- C. Bronchospasm
- D. Impaired accommodation to darkness by pilocarpine

21. All the following uses of anti-muscarinic drugs are correct, **EXCEPT**:

- A. Hyoscine is useful before surgery as premedication agent
- B. Hyoscine for motion sickness
- C. Atropine for treatment of tachycardia with acute myocardial infarction
- D. Ipratropium inhalation for bronchial asthma

22. All the following are kinds of targets for drug action, **EXCEPT**:

- A. Receptors
- B. Ion channels
- C. Growth hormones XXX
- D. Carrier molecules

23. All the following are pharmacodynamic actions of antimuscarinic agents, **EXCEPT**:

- A. Increase intraocular pressure
- B. Dry mouth
- C. Blurred vision
- D. Increase bowel motion XXX

24. All the following about organophosphorous insecticide poisoning are true, **EXCEPT**:

- A. Pralidoxime antagonizes nicotinic actions of these agents XXX
- B. Presents with hypotension
- C. Atropine antagonizes muscarinic action of these agents

- D. Present with pin point pupil
- 25. All the following drugs are excreted largely unchanged in the urine, EXCEPT:**
- A. Piroxicam
 - B. Amiloride
 - C. Furosemide
 - D. Oxytetracycline
- 26. All the following drugs are probably do not harm the fetus, EXCEPT:**
- A. Insulin
 - B. Methyldopa XXX
 - C. Amphetamines
 - D. Paracetamol
- 27. All the following drugs produce fetal abnormalities, EXCEPT:**
- A. Folic acid antagonist
 - B. Androgens
 - C. Lithium
 - D. Lactulose
- 28. All the following factors that alter bioavailability, EXCEPT:**
- A. Volume of distribution XXX
 - B. First pass hepatic metabolism
 - C. Chemical instability
 - D. Nature of the drug formulation
- 29. One of the following drugs are obtained from natural alkaloid:**
- A. Suxamethonium
 - B. Pilocarpine
 - C. Rifampicin
 - D. Cimetidine
- 30. All the following drugs are interacting with alcohol, EXCEPT:**
- A. Metformin
 - B. Digoxin
 - C. Metronidazole
 - D. Aspirin
- 31. All the following statements about oral route are true EXCEPT:**
- A. It may produce GIT irritation
 - B. It is unsuitable for protein drugs
 - C. It is suitable for water soluble drugs
 - D. It is suitable for systemic & local effects XXX
- 32. All the following drugs are metabolizing by phase 1 reaction, EXCEPT:**
- A. Catecholamines
 - B. Histamine
 - C. Chloramphenicol XXX
 - D. Ethanol

- 33. All the following drugs induce hepatic enzyme metabolic activity, EXCEPT:**
- A. Rifampicin
 - B. Erythromycin XXX
 - C. Phenytoin
 - D. Barbiturates
- 34. All the following statements about drug elimination are true, EXCEPT:**
- A. Kidneys are the main organ of elimination
 - B. Lungs are the main organ of elimination XXX
 - C. Drugs eliminated are water soluble
 - D. Lipid soluble drugs are reabsorbed by the kidneys
- 35. One of the following drugs are used in the treatment of organophosphorous insecticide poisoning (OPI):**
- A. Neostigmine
 - B. Pyridostigmine
 - C. Atropine XXX
 - D. Edrophonium
- 36. All the following factor affecting GI absorption, EXCEPT:**
- A. GI motility
 - B. Solubility
 - C. Splanchnic blood flow XXX
 - D. Physicochemical factors
- 37. All the following are highly protein-bound drugs, EXCEPT:**
- A. Chlorpromazine
 - B. Furosemide
 - C. Ibuprofen
 - D. Atenolol
- 38. One of the following drugs is used in diagnosis of myasthenia gravis:**
- A. Edrophonium
 - B. Pyridostigmine
 - C. Neostigmine
 - D. Pancuronium
- 39. Muscarinic receptors stimulation by acetylcholine produce all the following, EXCEPT:**
- A. Increases gastric acid secretion
 - B. Decreases heart rate and contractility
 - C. Skeletal muscle contraction
 - D. Erection through release of nitric oxide
- 40. The following indication of cholinomimetics are correct, EXCEPT:**
- A. Bethanechol to stimulates bladder and gut wall to contract
 - B. Pilocarpine topically in glaucoma to lower raiser IOP
 - C. Edrophonium in treatment of myasthenia gravis
 - D. Carbachol topically in glaucoma to lower raiser IOP

