



QUESTION BANK

Define the following

1. Alkaloid
2. Glycoside
3. Biotransformation
4. First pass effect
5. Enterohepatic circulation
6. Pharmacokinetics
7. Clearance
8. Volume of distribution
9. Half life
10. Pharmacodynamics
11. Receptor
12. Affinity
13. Agonist
14. Antagonist
15. Synergism
16. Additive
17. Antagonism
18. Potentiation
19. Prodrug
20. Plateau principle
21. Therapeutic index
22. Bioavailability
23. Expectorant
24. Antitussive
25. Demulcent
26. Sialagogue
27. Choloretic

28. Astringent
29. Mucolytic
30. Ecboic
31. Tocolytic
32. Bioenhancer
33. Pharmacy
34. Inverse agonist
35. Tachyphylaxis
36. Symport
37. Antiport
38. Prokinetic
39. Antizymotic
40. Pharmacognosy
41. Materia medica
42. Pharmacometrics
43. Posology
44. Chemotherapy
45. Placebo
46. Idiosyncrasy
47. Drug
48. Second messenger
49. Biopharmaceutics
50. Ion trapping
51. Hoffmann elimination
52. pKa
53. Tolerance
54. Analeptic
55. Decongestant
56. Ruminotoric
57. Emollient
58. Keratolytic

59. Counterr-irritant
60. Antisialagogue
61. Pharmacotherapeutics
62. Partial agonist
63. Cotransport
64. Bioequivalence
65. Ligand
66. Drug acceptor
67. Pharmacovigilance
68. Intolerance
69. Poisoning
70. Drug allergy
71. Iatrogenic
72. Diaphoretic
73. Surfactant
74. Pharmacopoeia
75. Adsorbent
76. Isoenzymes
77. Therapeutic ratio
78. Carminative
79. Antacid
80. Enema
81. Cholekinetics

Write short notes on the following

1. Plasma Protein binding
2. Enlist the various routes of drug administration.
3. Write the advantages and disadvantages of oral route of administration
4. Structure of biological membrane
5. Enlist the various transport processes across the biological membrane.
6. Describe passive diffusion.

7. Henderson-Hasselbalch equation.
8. Factors affecting drug absorption after oral administration
9. Renal excretion of drugs
10. Various theories of receptor
11. Digitalization
12. How will you classify antiarrhythmic drugs?
13. Write in detail about Na⁺ channel blockers as antiarrhythmics.
14. Explain the different types of antagonism
15. Write in detail about kinetics of drug elimination
16. Therapeutic uses of Vitamin A in animals
17. Write short notes of keratolytics and counter irritants and their use in veterinary practice
18. Pharmacological action and uses of xanthine group of drugs
19. Classify antihypertensives
20. In vitro anticoagulants
21. Systemic antacids
22. Mechanism of action of digitalis
23. Drug reservoirs
24. Microsomal enzymes
25. Classify antiulcer drug with examples.
26. Discuss the mechanism of action of antiulcer drugs.
27. Clinical uses of H₂ receptor antagonists
28. Progestins
29. Antithyroid drugs
30. What are analeptics? Explain in detail about pharmacological effects of doxapram and methylxanthine derivatives
31. Anabolic steroids
32. Growth hormone
33. Potassium sparing diuretics
34. Write short notes on Phase I biotransformation reactions
35. Inotropic receptors
36. Specialized drug delivery systems

37. Compartmental pharmacokinetic models
38. Write short notes on antihelmintic agents
39. Pharmacological approach in the management of diarrhea
40. Write short notes on different synthetic glucocorticoid preparations available along with its usage
41. Write short notes on adverse drug reaction
42. Write short notes on antithyroid drugs
43. Oral hypoglycaemic agents
44. Write short notes on urinary antiseptics
45. Fluid replacement therapy
46. Treatment of shock

Differentiate the following

1. Efficacy and potency of a drug
2. Enzyme inhibition and Enzyme induction
3. Loading dose and Maintenance dose
4. Passive and active transport
5. Pinocytosis and Phagocytosis
6. Distribution and Redistribution
7. Compartmental and noncompartmental models
8. Agonist and partial agonist
9. Receptor upregulation and down regulation
10. Competitive and noncompetitive antagonism
11. Side effect and adverse effect
12. Drug effect and drug action
13. First order kinetics and Zero order kinetics
14. Expectorant and antitussives
15. Silent receptor and spare receptor
16. Quantal and graded dose response curve
17. Active and passive transport
18. Empirical therapy and rational therapy

19. Cholagagues and choleretics
20. Pharmacokinetics and Pharmacodynamics
21. Loading dose and maintenance dose
22. Pharmacological antagonism and physiological antagonism
23. Chemical and physical antagonism
24. Bioavailability and Bioequivalence

Answer the following

1. Write in detail about the various targets for drug action.
2. What is biotransformation. Explain in detail about phase I biotransformation.
3. Write in detail about phase II reaction with due emphasis on species difference.
4. Write in detail about various of drug elimination
5. How will you classify the receptors? Write in detail about G-protein coupled receptors
6. Write in detail about various factors affecting drug action.
7. What are cardiac glycosides? Write source, structure, mechanism of action and uses of digitalis.
8. Write in detail about antiarrhythmic drugs.
9. Give an account of barriers for transport of drugs across biological membranes
10. Explain in detail about how drug signals are transduced in the body
11. Classify diuretics. Discuss their mechanism of action and clinical use
12. Elaborate the pharmacodynamics of digitalis which benefits the congestive heart failure and how treatment is advocated
13. Write in detail about antihypertensive drugs
14. Classify purgatives. Explain the mode of action of contact purgatives
15. Write in detail about various classes of antiemetic drugs with their mechanism of action
16. Pharmacological control of gastric acidity and pH
17. Write in detail about stages of new drug development
18. Pharmacological intervention in ruminal disorders
19. Pharmacological modulation of gastric acid secretion and their clinical importance
20. Drugs modulating appetite

21. How will you classify expectorants? Explain in detail about their mechanism of action and clinical use
22. Discuss about general principles of corticosteroid therapy
23. What is bioavailability. Write its clinical significance. Discuss the various factors which affects the bioavailability of a drug.