

Pharmacotherapeutics I

Question bank

10 marks:

1. Describe etiology, pathophysiology, signs and symptoms, diagnosis and pharmacotherapy of bacterial conjunctivitis
2. Describe etiology, pathogenesis, signs and symptoms, diagnosis and pharmacotherapy of asthma
3. Pathogenesis and pharmacotherapy of asthma
4. Define asthma; explain the triggering factors, pathophysiology, clinical manifestations and pharmacotherapy of asthma
5. Write the management of asthma along with its treatment algorithms
6. Explain the pathophysiology, symptoms, treatment goals and treatment of diabetes mellitus with oral drugs
7. Enumerate various types of insulin. Explain the mechanism, pharmacokinetics and adverse effects of insulin injections.
8. Describe pathogenesis, diagnosis tests and pharmacotherapy of type ii diabetes mellitus
9. Describe pathogenesis and pharmacotherapy of MI
10. Describe etiology, pathophysiology and pharmacotherapy of COPD
11. Describe pathophysiology, clinical features, diagnosis and treatment of osteoporosis
12. Pathogenesis and pharmacotherapy of hypertension
13. Pharmacotherapy of hypertension
14. Define and classify hypertension? Describe etiology, pathophysiology and pharmacotherapy of essential hypertension
15. Classify glaucoma? Draw a neat algorithm for pharmacotherapy of open angle glaucoma
16. Explain the pharmacotherapy of cardiac arrhythmia
17. Explain the electrophysiology of heart and add a note on the pathophysiology of cardiac arrhythmias
18. Explain pharmacotherapy of CCF
19. Explain the role of diuretics and sympathomimetics in ccf and explain the role of nitrates in acute coronary syndrome
20. Hyperlipidemia- classify and write a note on drug therapy for it
21. Explain the various insulin preparations in terms of onset of action, peak effects and duration of action and explain the management of diabetic ketoacidosis and neuropathy
22. Describe the role of antibiotics and anticholinergics in COPD and discuss the management of acute severe asthma

5 marks:

1. Explain the different types of arrhythmias
2. Explain the pathogenesis of cardiac arrhythmia
3. Explain the role of class 1 antiarrhythmic agents

4. Draw the treatment algorithm for cardiac arrhythmias and explain the same
5. Explain the role of inhaled beta agonist in the management of asthma
6. Pathogenesis pharmacotherapy of asthma
7. Explain the management of COPD
8. explain the treatment goals, common therapeutic problems and therapeutic options of each stage of COPD
9. Etiopathogenesis of COPD
10. Enumerate drug-induced pulmonary diseases. Explain the pharmacotherapy of any one of them
11. The various drug-induced pulmonary diseases . Explain the pharmacotherapy of them
12. Differentiate lung volume tests and capacities with neat illustration
13. Guidelines for prescribing of drugs to geriatric patients
14. Guidelines for prescribing of drugs to pediatric patients
15. Signs, symptoms and management of hyperthyroidism
16. Treatment modalities of hyperthyroidism
17. Clinical features, diagnosis and treatment of hyperthyroidism
18. Note on hormone replacement therapy
19. Risk factors and therapeutic uses of HRT
20. Explain the need and importance of HRT
21. Pharmacotherapy using HRT
22. Pharmacotherapy of HRT
23. Synthesis and release of thyroid hormones and add a note on their functions
24. Signs, symptoms and treatment of osteoporosis
25. Discuss the treatment options for osteoporosis
26. Explain the symptoms, diagnosis and treatment for osteoporosis
27. Explain the merits and demerits of various contraceptive pills
28. Explain the therapy with oral contraceptives
29. Principles of oral contraceptives
30. Explain the categorization of drugs in pregnancy with suitable examples
31. Classify different types of hypertension and explain in detail CCBs
32. Explain the complications of hypertension along with its treatment
33. Risk factors for hypertension and its management
34. Management of dyslipidemia
35. Pharmacotherapy of hyperlipidemia
36. Pathophysiology of hyperlipidemia and its treatment
37. Signs, symptoms and pharmacotherapy of angina
38. Types of angina pectoris
39. Explain the treatment algorithm for acute MI
40. Discuss the management of MI
41. Describe the various clinical features the differentiate right failure and left heart failure
42. Write the pathophysiology of CCF & its treatment
43. Role of inotropic agents in the treatment of CHF
44. Pharmacotherapy of glaucoma
45. Difference between open angle and closed angle glaucoma

46. Explain the role of pharmacists in rational drug use
47. Who interventions/guidelines for promoting rational drug use
48. How rational drug prescribing can be improved
49. Define rational drug use and explain the role of pharmacists in essential drug concept
50. Describe the therapeutic management of conjunctivitis
51. Explain the management of diabetic ketoacidosis
52. Explain the pharmacotherapy of type 1 DM emphasizing the adr of each group of agents
53. Discuss the role of thiazolidinediones in the management of type 2 DM
54. Difference between type 1 and type 2 DM
55. Pathogenesis of type 1 and type 2 DM

2 marks:

1. Define nitrate tolerance test and to prevent the same
2. Clinical presentation of angina pectoris
3. Enlist the drugs used in angina pectoris
4. Diagnosis for angina
5. Differentiate between ismn and isdm
6. Note on hmg-coa reductase inhibitors
7. Major ADR of beta blockers
8. ADR of ace inhibitors
9. Explain about vasodilators
10. Use of diuretics in hypertension
11. Define pseudo hypertension and emergency hypertension
12. Hypertension urgency
13. White coat hypertension
14. Pregnancy induced HTN
15. Isolated systolic hypertension
16. Orthostatic hypertension
17. Write a note on dash therapy
18. Mention the choice of antihypertensives used in pregnant women
19. Why diuretics are least preferred in Indian population for the management of hypertension
20. Definition and risk factors for MI
21. Pharmacotherapy of MI
22. Diagnostic tests used for MI
23. Discuss the role of morphine in the management of MI
24. Digoxin toxicity and its prevention
25. Risk factors of CCF
26. Comment for diuretic and decoction combination in management of CHF
27. Types of primary hyperlipidemia
28. Side effects of statins
29. Statins
30. Role of statins in hyperlipidemia
31. Write the dosage regimen of any two statins with adverse effects
32. Write a dietary therapy on hyperlipidemia

33. Give the optimum serum lipid profile
34. Diabetic neuropathy
35. Types and clinical features of dm
36. Note on insulin
37. Classify and give examples of insulin preparations with the onset and duration of action
38. Mention any four drugs contraindicated in pregnancy
39. Explain the thyroxine administration in pregnancy
40. Define the pregnancy categories of drugs
41. Mention any 4 drugs contraindicated during breast feeding
42. Categorization of drugs for pregnancy & lactating mothers
43. Administration of oestrogen
44. Symptoms of menopause
45. Enumerate the postmenopausal symptoms
46. Enlist the major adverse effects of oral contraceptives
47. Define osteoporosis
48. Signs, symptoms and diagnosis of osteoporosis
49. Enlist the drugs used for treating osteoporosis with the dose and adverse effects
50. Define essential drug concept and give two examples of essential drugs
51. Define rational drug use and essential drug concept
52. Define rational drug use and list out the objectives
53. Classify and give examples of insulin preparations with the onset and duration of action
54. Treatment goals for hyperthyroidism
55. Complications of hyperthyroidism
56. Note on HRT
57. Risks of HRT
58. Define HRT and its importance
59. Enlist 4 drugs that affect the thyroid function
60. Define thyrotoxicosis
61. Mention any four pulmonary function tests
62. List the pulmonary function tests
63. Explain any four drugs induced pulmonary disease
64. Definition and symptoms of COPD
65. Etiology of arrhythmia
66. Mention the drugs that cause Qt prolongation
67. Difference between bronchitis and emphysema
68. Define cor pulmonale
69. ADR of theophylline
70. Why is it important to ask patients if they smoke before starting them on theophylline
71. What is the dosing schedule and adverse effects of theophylline
72. General guidelines for rational use of antibiotics
73. What is the significance of glycosylated hemoglobin test
74. What is the aim of profile after treatment of asthma. Why is it important?
75. Treatment of conjunctivitis
76. Signs and symptoms of conjunctivitis
77. Two drugs used for treating conjunctivitis with their adverse effects
78. Enumerate the adverse effects of sulfonyl ureas

79. What is lactic acidosis? Mention few drugs that can produce this side effect
80. Write on use of ECG diagnostic test
81. Common therapeutic problems associated with COPD
82. Complications of hypertension