

Long Essays (10 Marks)

1. Define and classify antibiotics. Explain SAR and Mechanism of action of Beta lactum antibiotics
 2. Describe the degradation of pencillins. Explain about development of acid resistant penicillins
 3. What are antibiotics? Discuss the SAR & MOA of tetracyclines
 4. What are beta lactum antibiotics? Give the degradation products of pencillins. Write a note on beta lactamase inhibitors.
 5. What are Beta lactum antibiotics? Give the degradation products of penicillins. Outline the synthesis of chloramphenicol.
 6. Define antibiotics? Classify them with examples. Discuss the chemistry and mechanism of action of aminoglycoside antibiotics
 7. Define antibiotics? Classify them with examples. Write the chemistry & MOA of macrolide antibiotics.
 8. Define antibiotics? Classify cephalosporins with examples. Write the structure and uses any two cephalosporins.
 9. Define antibiotics? Write a note on Beta lactamase inhibitors. Explain the SAR & MOA of tetracyclines.
 10. A) Define and classify antibiotics.
B) Discuss bacterial resistance? Write a note on beta lactamase inhibitors?
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- 1) Classify antihypertensive agents? Explain the MOA of ACE inhibitors. Write the synthesis and uses of warfarin
 - 2) What are antiarrhythmic drugs? Classify them with examples. Write structure and uses of verapamil, phenytoin and propranolol.
 - 3) Classify antihypertensive agents? Write the MOA of Calcium channels blockers & Beta blockers with examples
 - 4) Classify Anti-arrhythmic and antihypertensive agents? Write a note on Angiotensin Receptor Blockers.
 - 5) What are calcium channel blockers? Describe their effect on cardiovascular system. Write the synthesis of Warfarin
 - 6) Classify antihypertensive agents? Write a note on antianginal agents? Give the structure and uses of any two nitro vasodilators
 - 7) Classify antiarrhythmic agents? Explain the MOA of antihyperlipidemic agents? Write the structure and uses of Atorvastatin and Lovastatin
 - 8) What are cardiovascular drugs? Classify them with examples. Give the synthesis of Warfarin

9) Write any two structure and uses of the following

- i) Calcium channel blocker ii) ACE Inhibitor iii) Beta blocker
- iv) Antianginal agents v) Antihyperlipidemic agents

10) Write the structure and specific uses of

- i) Isosorbide dinirate ii) Verapamil iii) Propranolol iv) Captopril
- v) Clofibrate

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SHORT ESSAY

- 1) Write a note on urinary tract anti-infectives. Outline the synthesis of ciprofloxacin.
 - 2) Add a note on synthetic antifungal agents. Give the synthesis of tolnaftate.
 - 3) Name any four antiamoebic drugs. Give the synthesis of metronidazole.
 - 4) What are anthelmintics. Write the synthesis of thiabendazole and albendazole
 - 5) What are antifungal antibiotics? Explain their mechanism of action.
 - 6) What are antitubercular agents? Write short notes on combination therapy for tuberculosis
 - 7) Classify viral diseases and enumerate the drugs used in the therapy. Explain their mode of action. Give the structural and medicinal uses of zidovudine.
 - 8) Name four antiviral agents .give the structure uses of Amantadine.
 - 9) What are anti TB drugs ? Enlist the problems associated with the treatment. Give the structure of Para amino salicylic acid and INH
 - 10) What are antiviral drugs? Classify them with suitable examples.
 - 11) Classify anti- TB agents? Write the structure of any two anti-tubercular drugs.
 - 12) Write the structure and uses of p-amino salicylic acid, isoniazid , ethambutol and pyrazinamide
 - 13) Discuss the chemistry of Quinolones? Write the synthesis of Nitrofurantoin.
 - 14) Give the examples of substituted Imidazoles as antifugal agents? Give the synthesis of Miconazole
 - 15) Name any four antiameobic agents? Give the synthesis of Metronidazole
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- 1) Discuss the SAR of sulfonamides
 - 2) Comment on combination therapy of trimethoprim and sulphamethoxazole.
 - 3) Give the mechanism of action of sulphonamides. Write the structure and uses of phthalyl sulphathiazole and sulphadiazine.
 - 4) Add a note on folate reductase inhibitors. Explain the synergistic action of sulphamethoxazole and trimethoprim.
 - 5) Write the synthesis of sulfisoxazole and trimethoprim.
 - 6) What is crystal uria? How to overcome from it.

- 7) Explain the MOA of sulfonamides? Write the structure and uses of sulfapyradine and sulfacetamide
- 8) Classify sulfonamides based on the duration of action? Give the synthesis of Dapsone
- 9) Classify sulfonamides based on site of action? Give the synthesis of Trimethoprim
- 10) Explain the SAR of sulfonamides? Give the synthesis of Dapsone

1) Write the SAR of quinoline analogues of anti- malarials.

- 2) Classify anti-malarial agents with suitable examples. Outline the synthesis of Chloroquine
- 3) What are anti-malarial drugs? Explain the life cycle of malaria.
- 4) Write the SAR of i) 8-amino quinolines ii) 4-amino quinolones.
- 5) Classify anti-malarial agents. Outline the synthesis of chloroquine
- 6) Give the mechanism and synthesis of chloroquine phosphate
- 7) How malaria is caused? classify antimalarial agents?

1) What are antineoplastic agents? Discuss the mechanism of action of alkylating agents

- 2) Classify the alkylating agents with example. Outline the synthesis of chlorambucil.
- 3) Discuss the mechanism of action of mercapto purine and busulfan.
- 4) Give the structure, mechanism of action and therapeutic uses of chlorambucil and 5-fluorouracil.
- 5) What are anticancer drug? Give the mechanism of action of antimetabolites
- 6) Write a note on plant products and hormones as anticancer agents
- 7) Write the synthesis of chlorambucil and methotrexate

1) Classify antiarrhythmic agents with examples

2)

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SHORT ANSWERES

- 1) Give the structures of two carrier linked prodrugs.
- 2) What is prodrug? Give examples.
- 3) Define prodrug with one example.
- 4) Write the structure of one prodrug and its active metabolites.
- 5) Mention the electronic paramaters used in QSAR studies
- 6) Mention the steric paramaters used in QSAR
- 7) What are lead molecules? How are they useful in drug discovery
- 8) Applications of QSAR

- 9) Give the structure and uses of anyone Antiviral agent.
- 10) Give the structure of an antifungal agent having imidazole nucleus.
- 11) Outline the synthesis and uses of tolinaftate.
- 12) Give the examples of antifungal antibiotics.
- 13) Outline the synthesis of Nitrofurantoin.
- 14) Write the structure and uses of pefloxacin.
- 15) Give the structure and uses of ciprofloxacin
- 16) Give the structure and uses of Nitrofurantoin.
- 17) Write the structure and uses of Nalidixic acid.
- 18) Structure and uses of Isoniazid and pyrazinamide
- 19) Write the structure and uses of Para amino salicylic acid
- 20) Outline the synthesis of dapsone.
- 21) Name any two antibiotics used as antitubercular agents.
- 22) Write the structure and uses of Zidovudine.
- 23) Give the synthesis of Metronidazole.
- 24) Define Anthelmintics, give examples.
- 25) What are antiprotozoal agents? Give the structure of Carbasone.
- 26) Synthesis and uses of thiabendazole

- 27) Synthesis and uses of albendazole
- 28) Write the structure and uses of sparfloxacin
- 29) Source, structure and use of emetine
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- 30) Write the structure uses of propranolol
- 31) Write the structure and uses of amiodaran and diltiazem.
- 32) What are ACE inhibitors? Give two examples.
- 33) Name any two calcium channel blockers and give their uses.
- 34) Write the structure and uses of minoxidil.
- 35) Write the structure and uses of felodipin
- 36) Write the structure and uses of cyclandelate.
- 37) Give the structure and uses of Amantadine and Isosorbide nitrate.
- 38) What are vasodilators, give examples.
- 39) Write the structure and uses of captopril.
- 40) Give the structure and uses of procainamide and phenytoin.
- 41) Chemical structure and specific uses of Amyl nitrate.
- 42) Write the synthesis of Warfarin.
- 43) Name any two anticoagulants with their mechanism of action.
- 44) Write the structure and uses of Isosorbide Dinitrate
- 45) Write the structure and specific uses of quinidine
- 46) Write the structure and uses of alpha1 antagonist
- 47) What is the use of Angiotensin receptor blockers, Give one structure and use
- 48) Mechanism of Antianginal agents**
- 49) What are beta blockers? Write name and uses of any two drugs.
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- 50) Write the structure of any two anti hyperlipidemic agents.
- 51) What are antihyperlipidemic agents? Write the structure of Atorvastatin
- 52) What are antihyperlipidemic agents? Write the structure of Lovastatin

- 53) Give the synthesis of chlorpropamide
- 54) Give the structure and uses of Meglitinide
- 55) Write the structure and uses of Pioglitazone
- 56) Write the structure and uses of Rosiglitazone
- 57) Define diabetes? Name any two drugs used in the treatment of diabetes
- 58) Define Hyperglycemia? Name any two biguanides used in the treatment of diabetes
- 59) Define hypoglycemia? Name any two sulfonyl urea derivatives
- 60) Insulin and its derivatives
- 61) Write the structure and uses of glipizide
- 62) Give two drug names of thiazolidinediones used as hypoglycemic agents
- 63) Give the structure of any two antithyroid drugs
- 64) Give one structure and uses of thyroid hormones.
- 65) Structure and uses of estrogen
- 66) Write the structure and uses of Progesterone
- 67) Give examples for synthetic estrogens
- 68) Write the structure and uses of Amiloride.
- 69) Structure and uses of triamptere
- 70) What are high ceiling diuretics? Give examples
- 71) Synthesis of furosemide
- 72) Structure and uses of furosemide
- 73) Synthesis of ethacrynic acid
- 74) Structure and uses of ethacrynic acid
- 75) Mechanism of acetazolamide
- 76) Structure and uses of acetazolamide
- 77) What are carbonic anhydrase inhibitors give examples
- 78) Write the structure and uses of spironolactone
- 79) Write the structure and uses of hydrochlorthiazide
- 80) Write the structure and uses of Benzthiazide
- 81) What are potassium sparing diuretics give examples

82) Give the structure and use of any one aldosterone antagonists

83) MOA of thiazide diuretics

84) Cotrimoxazole and mechanism

85) Synergistic effect of cotrimoxazole

86) Give the synthesis of sulphamethoxazole

87) Synthesis of dapsone

88) Structural features required for sulfonamides

89) Name any two sulfonamides used in the treatment of Burn therapy

90) Write the structure and uses of sulphamethoxazole

91) Write the structure and uses of Phthalyl sulfathiazole

92) Write the structure and uses of trimethoprim

93) Write the structure and uses of sulfoxazole

94) Write the structure and uses of sulfasalazine

95) What the structure and uses of chlorguanide

96) Write the structure and uses of chloroquine

97) What are artemesins give one structure

98) Give source, structure and uses of quinine

99) Give the structure and use of artimether

100) Write the structure of any two 4-amino quinolines

101) Write the structure and uses of any two 8-amino quinolines

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