



- Notes :
1. Diagrams and Chemical equation should be given wherever necessary.
 2. Illustrate your answers wherever necessary with the help of neat sketches.
 3. All questions are compulsory.

1. Multiple choice questions.

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- 1) Sotalol drug belongs to----- antiarrhythmic drugs.
a) Class I b) Class II
c) Class III d) Class IV
- 2) Cardiac glycosides acts by blocking.
a) K⁺ pump b) Na⁺ pump
c) Na⁺ – K⁺ ATPase d) All
- 3) Drug used in heart failure includes all except.
a) α-agonist b) β – agonist
c) β – -antagonist d) Na⁺K⁺ ATPase inhibitor
- 4) How many six member rings present in steroidal skeleton.
a) 5 b) 4
c) 3 d) 2
- 5) Blood does not clot due to release of PGI₂.
a) True b) False
- 6) Thromboplastin released by
a) RBC b) WBC
c) Plasma d) None
- 7) Generation of impulse depends on-
a) Action potential b) Ion-exchange
c) Neuron d) All
- 8) One of the following have sulphonamide character.
a) Sotalol b) Quinidine Sulphate
c) Lidocaine d) Phenytoin
- 9) Which one of the drug acts by sequestering the bile acid in the GIT?
a) Colestipol b) Lovastatin
c) Probucol d) Niacin
- 10) Which of the following is a peptide?
a) Digoxin b) Digitoxin
c) Nesiritide d) Bosentan

- 11) Secondary Hypothyroidism is due to deficiency of
 - a) TSH
 - b) TRH
 - c) Both a & b
 - d) None
- 12) Which one is not PDE inhibitor.
 - a) Sildenafil
 - b) Tadalafil
 - c) Testosterone
 - d) Acetildenafil
- 13) H₂ Receptor mainly present in-
 - a) Skin
 - b) GIT
 - c) CNS
 - d) All
- 14) In which condition histamine is released.
 - a) Injury
 - b) Allergic condition
 - c) Both a & b
 - d) All
- 15) Non-sedative antihistaminic includes all except.
 - a) Cetirizine
 - b) Cyclizine
 - c) Loratidine
 - d) Pyrilamine
- 16) First generation antihistaminic drug cross the blood brain barrier.
 - a) True
 - b) False
- 17) After release, histamine produce.
 - a) Hypotension
 - b) Oedema
 - c) Bronchoconstriction
 - d) All
- 18) Type-I hyperlipoproteinemia is due to-----
 - a) Excess LDL
 - b) Excess VLDL & LDL
 - c) Decrease activity of lipoprotein lipase
 - d) None
- 19) Coagulant factors IX stand for
 - a) Christmas factor
 - b) Plasma thromboplastin component
 - c) Antihemophilic factor B
 - d) All
- 20) Pregn-4-ene-3, 20-dione IUPAC name for
 - a) Progesterone
 - b) Estradiol
 - c) Prednisone
 - d) Sildenafil

2. Long Answer Question.

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- i) Describe synthesis of histamine from histidine list type of histaminic receptors and Location of receptor & give classification of antihistaminic drugs with examples.
- ii) Define and classify diuretics with examples Explain mechanism of action of loop diuretics & write the synthesis of furosemide.
- iii) Define and classify antihypertensive agents? Explain the MOA of Angiotensin Receptor blockers. Write the synthesis of methyl DOPA.

- i) Write a note on antianginal agents. Explain the synthesis of isosorbide dinitrate.
- ii) Define antihyperlipidemic agents? Write the structure and use of dofibrate lovastatin, cholestyramine & colestipol.
- iii) Write a note on thyroid & antithyroid drugs.
- iv) Explain metabolism of steroids.
- v) What are carbonic anhydrase inhibitors? Outline the synthesis of acetazolamide.
- vi) Give synthesis of chlorothiazide.
- vii) Give synthesis of mercaptopurine.
- viii) Give synthesis of cimetidine.
- ix) Give classification of antineoplastic drugs & give synthesis of methotrexate.
