

- a) Sotalol
c) Nifedipine
- b) Clofibrate
d) Nitroglycerine
- (xi) Which of the following is used for the treatment of allergy?
a) Timolol
c) Nimesulide
- b) Aspirin
d) Cetrizine
- (xii) Insulin consists of _____ amino acids.
a) 51
c) 80
- b) 60
d) 90
- (xiii) The drugs used for the treatment of Zollinger-Ellison syndrome is
a) Isoproterenol
c) Carboplatin
- b) Famotidine
d) Aspirin
- (xiv) Cetrizine is a _____
a) Piperazine derivative
c) Oxymorphone derivative
- b) Pyrazole derivative
d) Morphinan derivative
- (xv) The compound with tri nitrate ester of glycerol used as a Nitroglycerine compound is
a) 1,2,4-butanetriol trinitrate
c) 1,2,3-propanetriol trinitrate
- b) 1,3,5-pentanetriol trinitrate
d) none of these
- (xvi) Which of the following is a meglitinide derivative?
a) Repaglinide
c) Desflurane
- b) Nitrous oxide
d) Propofol
- (xvii) Class IV Antiarrhythmic drugs acts by blocking:
a) Ca⁺⁺ channel
c) K⁺ channel
- b) Na⁺ channel
d) None of these
- (xviii) The particular amino acid part that is common in ACE inhibitor is
a) Alanine
c) Glycine
- b) Serine
d) Proline
- (xix) High ceiling diuretics act by inhibiting:
a) Na⁺/K⁺/2Cl⁻ cotransporter
c) Na⁺/H⁺ antiport
- b) Na⁺/Cl⁻ symport
d) water reabsorption
- (xx) Which of the following is an ethylene diamine derivative?
a) Pylamine
c) Paracetamol
- b) Aspirin
d) Celecoxib

Group-B

(Short Answer Type Questions)

5 x 7=35

2. Explain the mechanism of action for menadione with its chemical structure and nomenclature (5)
3. Explain the structure of Ranitidine with IUPAC name and adverse as well as therapeutic applications of Ranitidine (5)
4. Establish the mechanism of action for cortisone schematically (5)
5. Write the structure, nomenclature and therapeutic uses of sotalol (5)
6. Write the structure and mechanism of action methotrexate (5)
7. Explain the therapeutic uses and Physiological role played by the Glucocorticoids and mineralocorticoids (5)
8. Write the synthesis of mechloroethamine and pharmacological uses of it (5)

OR

Write the synthesis and therapeutic activity of procaine (5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Classify the antianginal agents and provide the possible structural examples (10)

OR

Correlate the chemical structure and pharmacological activity relations of Estrogens with the possible structural examples. (10)

10. Considering the chemical structure with IUPAC name, write the steps involved in the synthesis of warfarin with mechanism of its pharmacological activity (10)

OR

Conclude the mechanism of action and detailed steps involved for the synthesis of methotrexate and mercaptopurine (10)

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