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(i) Triptelenamine belongs to derivatives :

- (a) Ethylenediamine
- (b) Aminoalkyl ether
- (c) Propylamine
- (d) Piperazine

(ii) Famotidine contains :

- (a) Furan ring
- (b) Imidazole ring
- (c) Thiazole ring
- (d) Pyrrole ring

(iii) Chlorpheniramine belongs to derivatives :

- (a) Ethylenediamine
- (b) Phenothiazines
- (c) Propylamine
- (d) Piperazine

(iv) Cyclophosphamide falls under which of the following category :

- (a) Nitrogen mustards

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- (b) Alkyl Sulphonate
- (c) Ethylenimines
- (d) Folic acid analogues

(v) Which of the following is Purine analogue :

- (a) Fluorouracil
- (b) Floxuridine
- (c) Cytarabine
- (d) Thioguanine

(vi) 1, 4:3:6-dianhydro-D-glucitol 2, 5-dinitrate is the chemical name of which of the following drug :

- (a) Nitrendipine
- (b) Nitroglycerin patch
- (c) Amly nitrite
- (d) Isosorbide nitrates

(vii) The calcium channel blocker nifedipine is the derivative of :

- (a) Diaminopropanol ethers
- (b) Diphenyl Alkylamines
- (c) Benzothiazepines

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(d) Dihydropyridines

(viii) The drug Bepridil containing which heterocyclic ring :

(a) Pyrrolidine

(b) Pyridine

(c) Benzothiazepine

(d) None

(ix) Which of the following is an anthranilic acid derivative :

(a) Acetazolamide

(b) Chlorthiazide

(c) Furosemide

(d) None

(x) The synthetic precursor for the synthesis of furosemide is :

(a) 2, 4 dichloro benzoic acid

(b) 2, 3-dichloro benzoic acid

(c) 2, 4-dichloro benzaldehyde

(d) 2, 3-dichloro benzaldehyde

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(xi) Captopril containing which of the following heterocyclic ring :

(a) Pyrazole

(b) Pyrrolidine

(c) Pyrimidine

(d) Piperidine

(xii) Which of the following drug is a benzothiazide diuretic analog :

(a) Minoxidil

(b) Losartan

(c) Diazoxide

(d) Hydralazine

(xiii) The nomenclature of clonidine is :

(a) 2, 6 dichloro-N (pyrimido-2-ylidene) benzenamine

(b) 2, 6 dichloro-N (imidazolidin-2-ylidene) benzenamine

(c) 2, 6 dichloro-N (piperidino-2-ylidene) benzenamine

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- (d) 2, 4 dichloro-N (imidazolidin-2-ylidene) benzenamine
- (xiv) 3-(3, 4-Dihydroxyphenyl)-2-methylalanine, is the nomenclature of which drug :
- (a) Hydralazine
 (b) Guanethidine
 (c) Methyldopa
 (d) Sodium nitroprusside
- (xv) Which of the following drug is a structural analogue of lidocaine ::
- (a) Flecainide
 (b) Disopyramide
 (c) Mexiletine
 (d) Procainamide
- (xvi) Disopyramide is containing which of the heterocyclic ring :
- (a) Pyridine
 (b) Pyrrole
 (c) Pyrazole

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- (d) Pyrimidine
- (xvii) The aglycon digoxigenin containing :
- (a) 11, 12-dihydroxy
 (b) 12, 14-dihydroxy
 (c) 12, 14, 16 - trihydroxy
 (d) 14-hydroxy
- (xviii) All the steroidal structure belongs to which polycyclic structure :
- (a) Naphthalene
 (b) Phenanthrene
 (c) Anthracene
 (d) None of the above
- (xix) Steroidal ring containing how many asymmetric carbons :
- (a) 4
 (b) 5
 (c) 6
 (d) 3

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(xx) Drug used for the treatment of erectile dysfunction is:

- (a) Nandrolone
- (b) Mestronol
- (c) Tadalafil
- (d) Progestin

Part-B

5×7=35

(Short Answer Type Questions)

Note: Answer any seven questions. All questions carry equal 5 marks.

- 2. Write the nomenclature and synthesis of nitroglycerine.
- 3. What is arrhythmia? Give the structure and mode of action of procainamide.
- 4. Write in brief about Benzoic acid derivatives as local anaesthetics.
- 5. Explain the biosynthetic pathway of insulin and its role in management of diabetes.

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6. What are antithyroid drugs? Discuss the mechanism of action of propyl thiouracil, and methimazole?

7. Discuss the classification and significance of oral hypoglycemic agents.

8. Write the classification of antihypertensive compounds. Give the Synthesis and mode of action of Methyldopa.

9. Write the structure, synthesis and mode of action of Diphendramine.

10. Write a note on drugs used for erectile dysfunction

Part-C

2×10=20

(Long Answer Type Questions)

Note: Answer any two questions. All questions carry equal 10 marks.

- 11. Classify the anticancer drug? Write the synthesis and mechanism of action of mercaptopurine and methotrexate.

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- 12.** Give the structural classification of Diuretics. Write mode of action and synthesis of Acetazolamide alongwith the SAR of thiazide diuretics.
- 13.** Write the classification and stereochemistry of steroidal compounds. Discuss the role of corticosteroids as anti-inflammatory agent with their sturcture.