



20112

23242

3 Hours / 80 Marks

Seat No. []

Instructions -

- (1) All Questions are Compulsory.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

30

1. Attempt any SIX of the following:

- a) Draw the structure of chlorpromazine hydrochloride give its IUPAC name, therapeutic uses, formulations and brand names.
- b) Draw the structure, IUPAC name, uses, formulations, and brand names of propranolol.
- c) Enlist various sources of impurities in pharmaceuticals. Write any 4 effects of impurities.
- d) Write uses of the following drugs:

i) Ketoconazole	ii) Chloroquine
iii) Norfloxacin	iv) Remdesivir
v) Pretomanid	
- e) Enlist two examples and uses for each of the following -

i) Medicinal gases	ii) Dental Products
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- f) Define Antibiotics. Classify antibiotics based on chemical structure.
- g) Explain complexometric titrations and Acid-base titrations.



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2. Attempt any TEN of the following:

- a) Enlist any 3 α -adrenergic blockers and any 3 β -adrenergic blockers.
- b) Classify Anti-arrhythmic agents with examples.
- c) Explain the principle and procedure involved in the limit test for sulphates.
- d) Classify Non-steroidal anti-inflammatory agents with suitable examples.
- e) Explain principle and reactions in the Assay of Ferrous sulfate.
- f) Draw the structure of Metformin, write its uses and enlist brand names.
- g) Classify Anti-depressants with examples. Draw the structure of Imipramine.
- h) Draw the structure of Isoniazid, write its IUPAC name and enlist any 2 brand names.
- i) Write uses of -

i) Chloramphenicol	ii) Streptomycin
iii) Azithromycin.	
- j) Draw the structure of 5-Fluorouracil and enlist its uses and write its storage condition.
- k) Draw the structure of Frusemide and give its storage condition and uses.

P.T.O.





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3. Attempt All of the following:

 - Write the use of lead acetate cotton plug in a limit test for arsenic.
 - Draw structure of Furan ring.
 - Pyrimidine ring contains two nitrogen atoms at _____ and _____ position.
 - 1 and 2
 - 1 and 4
 - 1 and 3
 - 2 and 3
 - Name any 2 anticonvulsant drugs.
 - Mordant Black is used in _____ type of titration.
 - Acid-Base
 - Redox
 - Oxidation
 - Complexometric
 - Draw structure of Pyridine ring.
 - Which antacid produce carbon di-oxide?
 - Aluminum hydroxide
 - Calcium carbonate
 - Magnesium hydroxide
 - All of these
 - Choose INCORRECT statement (s) -
 - Heterocyclic rings are not aromatic.
 - Thiazole have oxygen and nitrogen as hetero atoms.
 - Pyrrole is five-membered heterocyclic ring.
 - a only
 - b only
 - a and b
 - a, b and c
 - Enlist any two examples of cathartics.
 - Fill in the blank.
Captopril contains _____ heterocyclic ring.
 - Choose INCORRECT statement (s) -
 - Chlorpromazine is used in the treatment of Schizophrenia.
 - Risperidone is first generation typical anti-psychotic.
 - Phenobarbitone is used to induce epilepsy in rats.
 - a only
 - b only
 - b and c
 - a and b
 - Enlist the uses of Isosorbide dinitrate.
 - Enlist example of anti-cancer agent from anti metabolites.
 - The following analgesic lacks anti-inflammatory action
 - Ibuprofen
 - Paracetamol
 - Diclofenac Sodium
 - Piroxicam
 - Name one high ceiling diuretic.
 - Which of the following is an inhibitor of cyclooxygenase.
 - Aspirin
 - Pethidine
 - Pentazocin
 - All of these
 - Name any 2 tetracyclines.
 - The following is a anticholinergic agent.
 - Prazosin
 - Phentolamine
 - Yohimbine
 - Atropine
 - Draw the structure of Dapsone.
 - Which of the following drug is direct acting cholinomimetic agent?
 - Pyridostigmine
 - Physostigmine
 - Acetyl Choline
 - Parathion

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