

23124

3 Hours / 80 Marks



0812

Seat No.

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- 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) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following:

20

- a) Give the structure and numbering method for (any four):
 - i) Furan
 - ii) Thiazole
 - iii) Pyridine
 - iv) Imidazole
 - v) Quinoline
 - vi) Pyrimidine
- b) Define the following terms (any four)
 - i) Anticonvulsant
 - ii) Hypnotics and Sedatives
 - iii) Hypoglycemic agent
 - iv) Metastasis
 - v) Amoebiasis
 - vi) Sympatholytics
- c) Give the structure of (any four)
 - i) Paracetamol
 - ii) Mannitol
 - iii) Aspirin
 - iv) Proflavin
 - v) P.A.S.
 - vi) D.E.C.
- d) Give stability and storage conditions of
 - i) Thrombin
 - ii) Anaesthetic ether
- e) Mention two brand names for each (any two)
 - i) Mebendazole
 - ii) Metronidazole
 - iii) Indomethacin
- f) Give uses of (any four)
 - i) Diagepam
 - ii) warfarin
 - iii) sulfadiazine
 - iv) Chloroquine
 - v) Frusemide
 - vi) Ibuprofen
- g) Name any two drugs used in following diseases. (any four)
 - i) Amoebiasis
 - ii) Candidiasis
 - iii) Helminthiasis
 - iv) Leprosy
 - v) Epilepsy
 - vi) Tuberculosis
- h) Write the structure and name of drug containing the following heterocycle. (Any two)
 - i) Barbituric acid
 - ii) Acridine
 - iii) Pyridine

P.T.O.



2. **Attempt any THREE of the following:** 12
- Give properties, uses, pharmaceutical formulation and brand names of Ampicillin.
 - Define Antineoplastic agents. Classify them with examples.
 - Write structure, chemical name, uses and dosage form of Thyroxine.
 - Classify Antihistamines giving examples. Write the structure of Diphenhydramine or chlorpheniramine.
 - Classify 'Antiseptics and Disinfectants'. Draw the structure of chlorocresol.
3. **Attempt any THREE of the following:** 12
- Write structure, chemical name, physical properties and uses of caffeine.
 - Give properties and uses of
 - Fluorescein sodium
 - Evans blue
 - What are steroids? Name one hormone containing the following steroid nucleus
 - Oestrane
 - Androstane
 - Pregnane
 - Define and classify 'sympathomimetics'. Write structure of Isoprenaline.
 - Define and classify non-steroidal anti-inflammatory drugs giving suitable examples.
4. **Attempt any THREE of the following:** 12
- Define anticholinergic drugs and classify them giving suitable examples.
 - Give official preparations and uses of
 - Chlorpromazine
 - Haloperidol
 - Define and classify Anti-tubercular agents. Draw the structure of Ethambutol.
 - Define 'Local Anaesthetic'. Write structure, chemical name and brand names of Lignocaine HCL.
 - Define and classify Anthelmintics giving examples.
5. **Attempt any THREE of the following:** 12
- Classify antibiotics with examples. Draw structure of Penicillin G or Penicillin V.
 - What are Beta adrenergic blockers? Give two examples and structure of any one of them and write their therapeutic uses.
 - What is diabetes mellitus. Give structure and chemical name of phenformin or chlorpropamide.
 - What are diuretics? Classify diuretics with examples. Draw structure of Furosemide or Hydrochlorthiazide.
 - Give properties, uses and official preparations of:
 - Salbutamol
 - Pseudoephedrine
6. **Attempt any THREE of the following:** 12
- Give properties, uses and brand names of
 - Aspirin
 - Metformin
 - Define and classify Cardiovascular Agents.
 - Give the structure chemical name, uses and dosage forms of Adrenaline.
 - Enlist any three fat soluble vitamins and any three water soluble vitamins.
 - Draw structure, give uses properties and brand name of Imipramine.