

22223

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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks**16**

1. **Attempt any EIGHT of the following:**
- a) Give structure and method of numbering of (any two)
 - i) Purine
 - ii) Phenothiazine
 - iii) Piperidine
 - b) Write structure of following groups (any two)
 - i) Allyloxy
 - ii) Benzoyl
 - iii) Isopropyl
 - c) Give popular brand name of (any two)
 - i) Paracetamol
 - ii) Furosemide
 - iii) Metformin
 - d) Give the name and structure of drug containing following hetero cycle (any two)
 - i) Piperazine
 - ii) Benzodiazepine
 - iii) Piperidine
 - e) Classify antiseptics and disinfectant with suitable examples.
 - f) Give the structure and uses of coramine.
 - g) Name the drug used for treatment of (any two)
 - i) Glaucoma
 - ii) Gout
 - iii) Hypothyroidism
 - h) Write uses of following : (any two)
 - i) Evans blue,
 - ii) Congo Red,
 - iii) Iopanoic Acid
 - i) Write structure with numbering (any two)
 - i) Isoxazole
 - ii) Isoquinoline
 - iii) Imidazole
 - j) Define the following terms (any two)
 - i) Anticoagulants
 - ii) Antiarrhythmic Agents
 - iii) Analgesics
 - k) Give stability storage condition of (any two)
 - i) Insulin
 - ii) Halothane
 - iii) Acetylcholine
 - l) Write Structure and chemical name of (any two)
 - i) Hydrochlorothiazide
 - ii) Menadione
 - iii) Neostigmine

2. **Attempt any FOUR of the following:** **12**

- a) Differentiate between general and local anaesthetics. Write structure and chemical name of Lignocaine.
- b) Define and classify Diuretic drugs with examples. Draw the structure of furosemide.
- c) Define and classify Antineoplastic drugs with examples. Give properties of Methotrexate.
- d) Give structure, chemical name and uses of phenylbutazone.
- e) Enlist the uses of any three fat soluble vitamins.
- f) Define Hypoglycemic agents. Classify them with examples. Give structure of chlorpropamide.

3. **Attempt any FOUR of the following:** **12**

- a) What are steroids ? Draw the basic steroidal nucleus with numbering. Give the official preparations and uses of testosterone.
- b) What is contraindication. Give its composition, mechanism of antibacterial action and official preparations.

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- c) Define and classify Antihistamines with examples. Draw structure of Diphenhydramine.
- d) Classify Tranquillizers. Draw structure of Tranquillizers containing
 - i) Phenothiazine ring
 - ii) Piperidine Ring.
- e) Define and classify Analeptics. Name an analeptic which is a Xanthine derivative. Also write structure and chemical name.
- f) Classify Antibiotics according to chemical structure with example. Draw structure of Ampicillin.

4. Attempt any FOUR of the following: 12

- a) Draw structure with chemical name (any three)
 - i) Penicillin - V
 - ii) Pyrimethamine
 - iii) Sulfaguanidine
 - iv) Ephedrine
- b) Define and classify Hypnotics and sedative. Draw structure of Phenobarbitone.
- c) Give structure, chemical name and uses of Thyroxine.
- d) Define and classify Antitubercular agents with examples. Draw structure of antitubercular containing pyridine nucleus.
- e) Classify Antiseptics and Disinfectants with examples. Write the structure of chlorocresol.
- f) What are cardio vascular agents? Classify it with examples.

5. Attempt any FOUR of the following: 12

- a) Explain anti-inflammatory agent with classification. Give name, structure and properties of indole containing anti-inflammatory agent.
- b) Define and classify Antidepressant. Draw structure and give chemical name of Imipramine.
- c) Classify Antimalarial with suitable examples. Give name, structure of quinoline containing antimalarial agent.
- d) Explain antihypertensive agent with example
- e) Draw the structure of (any three)
 - i) Proflavine
 - ii) Sulfadiazine
 - iii) Ethambutol
 - iv) Metronidazole
- f) Give medicinal uses of (any three)
 - i) Tetracycline
 - ii) Aspirin
 - iii) Propranolol
 - iv) Neostigmine

6. Attempt any FOUR of the following: 16

- a) Define and classify General Anaesthetics with examples. Draw the structure of Diethylether and Halothane.
- b) Write different classification of sulfonamide with example. Give properties, uses and structure of sulfacetamide.
- c) Explain Adrenergic drugs with classification. Give properties, structure and popular brand name of Isoprenaline.
- d) Write structure with chemical name of (any four)
 - i) Dapsone
 - ii) Phenformin
 - iii) D.E.C.
 - iv) Chlorpheniramine
 - v) Aspirin
- e) What are Beta adrenergic blocker ? Classify adrenergic antagonist. Write structure and therapeutic uses of propranolol.
- f) Explain basic chemical structure of penicillins. Enlist different penicillins. Give structure, chemical name and properties of penicillin-G.