

0812

21718

3 Hours / 80 Marks

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 EIGHT of the following:** **16**
- a) Draw structure with numbering (any two)
- (i) Pyrazole
  - (ii) Phenothiazine
  - (iii) Piperazine
- b) Write structure of the following organic groups (any two)
- (i) Allyloxy
  - (ii) Acetyl
  - (iii) Amido
- c) Name the drug present in the following brands. (any two)
- (i) Ecosprin
  - (ii) Stemetil
  - (iii) Valium

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- d) Classify local Anaesthetics with examples.
- e) Give two brand names for each of the following drugs (any two):
  - (i) Paracetamol
  - (ii) Metformin
  - (iii) Metronidazole
- f) In what dosage form the following drugs are administered?
  - (i) Tolnaftate
  - (ii) Insulin
- g) Write names of four fat soluble vitamins.
- h) Write uses of following: (any two)
  - (i) Evans blue
  - (ii) Iopanoic acid
  - (iii) Fluorescein sodium
- i) Define coagulants and anticoagulants.
- j) Draw two structures of drug containing pyrimidine ring.
- k) Give structure and uses of Haloperidol.
- l) Name the drug used for (any two)
  - (i) Glaucoma
  - (ii) Asthma
  - (iii) Amoebiasis

- 2. Attempt any FOUR of the following:** **12**
- a) Classify Antiseptics and Disinfectants. Draw structure of chlorocresol.
  - b) Define and classify Anti-depressants with examples. Draw structure of Imipramine.
  - c) What are cardiotonic agents? Name any two cardiac glycosides and give their hydrolysis products.
  - d) Give structure and use of propranolol and Pethidine.
  - e) Give properties, uses and official preparations of clofibrate.
  - f) Define and classify NSAID with examples.
- 3. Attempt any FOUR of the following:** **12**
- a) Define Analeptic. Give structure and chemical name of caffeine.
  - b) Classify Adrenergic drugs. Draw structure of Isoprenaline.
  - c) Give name, structure and properties of sulphonamide used for treatment of eye infection.
  - d) What is leprosy? Give structure and uses of Dapsone.
  - e) Classify Antibiotics according to chemical structure with examples.
  - f) What is epilepsy? Classify Anti-convulsant drugs with examples.
- 4. Attempt any FOUR of the following:** **12**
- a) Classify Hypnotics and sedatives. Draw structure of Phenobarbitone.
  - b) Give structure, properties and uses of Atropine.
  - c) What are Antihypertensive drugs? Classify them with examples.
  - d) What are vitamins? Name four water soluble vitamins with their deficiency symptoms.
  - e) What do you know about adrenocortical hormones? Give uses and official preparations of Hydrocortisone.
  - f) Write structure, chemical name and uses of Penicillin V.

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

- a) Define and classify Antineoplastics with examples.
- b) Classify Hypoglycaemic agents with examples. Give structure of Phenformin.
- c) Give structure, chemical name and uses of Thyroxin.
- d) What is co-trimoxazole? Give uses and brand names of Co-trimoxazole.
- e) Give medicinal uses of :
  - (i) Isoniazid
  - (ii) DEC
  - (ii) Quinine sulfate
- f) Give structure, chemical name and uses of Ethambutol.

**6. Attempt any FOUR of the following:****16**

- a) Draw structure from given chemical name:
  - (i) 2-bromo-2-chloro-1,1,1 trichloro ethane
  - (ii) 2-diethyl aminoethyl-4- amino-benzoate
  - (iii) 5,5 diphenyl imidazolidine 2, 4-dione
  - (iv) 4-butyl-1,2-diphenyl pyrazolidine-3,5-dione
- b) Differentiate between general and local anaesthetics. Draw structure of Procaine or Lignocaine.
- c) Classify the Antimalerials with examples. Draw structure of chloroquine with its chemical name.
- d) What is Histamine? Define and classify Antihistamines with examples. Draw structure of chlorpheniramine.
- e) What are sex hormones? Give properties, uses and official preparations of testosterone.
- f) Define Diuretics. Classify them with examples. Give structure of furosemide.