

0812

11718

3 Hours / 80 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each 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

1. Attempt any EIGHT of the following: 16
- a) Write the structure for following (any two):
 - (i) Anilino
 - (ii) Benzyl
 - (iii) Guanidinyll
 - b) Write the structure with numbering of the following: (any two)
 - (i) Piperidine
 - (ii) Thiazole
 - (iii) Pyridazine
 - c) Write the structure with numbering of the following : (any two)
 - (i) Acridine
 - (ii) Indole
 - (iii) Isoquindine

P.T.O.

- d) Give uses of (any two):
 - (i) Glyceryl trinitrate
 - (ii) Nystatin
 - (iii) Pilocarpine
- e) Define the following giving example
 - (i) Anthelmintic
 - (ii) Anticoagulant
- f) Give the dosage forms in which following drugs are given:
 - (i) Salbutamol
 - (ii) Insulin
- g) Write the structure of following drugs:
 - (i) Atropine
 - (ii) DEC
- h) Name the drug present in following brand:
 - (i) Valium
 - (ii) Mebex
- i) Give use of Fluoresceine sodium.
- j) Draw the structure of basic steroidal nucleus. Give two uses of Hydrocortisone.
- k) Give stability storage conditions of the following:
 - (i) Diethylether
 - (ii) Adrenaline
- l) Give structure and chemical name of Ethambutol.

2. Attempt any FOUR of the following:

12

- a) Write structure and chemical name for:
 - (i) Isoniazid
 - (ii) Caffeine
- b) Define and classify sedative - hypnotics with examples.

- c) Give structure, chemical name, physical properties and uses of Nikethamide.
- d) Define 'Vitamins' and classify them giving examples.
- e) Give structure and chemical name of:
 - (i) Indomethacin
 - (ii) Ephedrine
- f) Name the components of Co-trimoxazole. Write mechanism of its antibacterial action and popular brand names.

3. Attempt any FOUR of the following:

12

- a) Name a tranquillizer belonging to benzodiazepine class. Give its structure, chemical name and popular brand names.
- b) What are Cardiotonics? Write about their hydrolysis products.
- c) Name a sedative - hypnotic containing - Piperidine ring in its structure. Give its structure and chemical name.
- d) Give structure and chemical name of:
 - (i) Dapsone
 - (ii) Phenobarbitone
- e) Classify Antiseptics and disinfectants. Also write the structure of Chlorocresol.
- f) Define and classify 'Diuretics' with examples.

4. Attempt any FOUR of the following:

12

- a) Define and classify antipsychotics with examples.
- b) What is epilepsy? Classify the drugs used in the treatment of epilepsy with examples.
- c) Give structure, chemical name and uses of Paracetamol.
- d) Classify sulphonamides in atleast two different ways.
- e) What are catecholamines? Write the structure of two catecholamines.
- f) Name the hormones secreted by thyroid gland. Write structure and chemical name of Thyroxine.

P.T.O.

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

- a) Give properties, uses storage conditions for Aspirin.
- b) Define and classify Antihistaminic agents with examples.
- c) Give structure and important therepeutic uses of Propranolol.
- d) Define and classify Antitubercular agents.
- e) Name one drug each containing following heterocycle and draw the structure of the drug:
 - (i) Furan
 - (ii) Imidazole
- f) Define Hypoglycemic agents and classify them with examples.

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

- a) Write the name of the drug with following chemical name and draw its structure:
 - (i) 4 - [4 - (4 - Chlorophenyl) - 4 - hydroxy piperidino] - 4 - fluoro butyrophenone.
 - (ii) N - diethyl amino acetyl - 2, 6 - Xylidine.
 - b) Classify Antimalarial agents. Also give the structure of Chlonoquine with chemical name.
 - c) Define and classify cardiovascular agents.
 - d) Draw and explain the structure of basic nucleus of Penicillins. Also give the structure of 'Penicillin G' with its chemical name.
 - e) Define and classify Antineoplastic agents with examples. Give properties and uses of methotrexate.
 - f) Define and classify general anaesthetics. Give structure and chemical name of Halothane.
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