



14115

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) Figures to the **right** indicate **full** marks.
(4) Mobile Phone, Pager and any other Electronic Communication devices are **not permissible** in Examination Hall.
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MARKS

1. Attempt **any five** of the following :

20

A) Write the structure and numbering of (**any four**) :

- | | |
|------------------|----------------|
| a) Imidazole | b) Pyridine |
| c) Phenothiazine | d) Oxazolidine |
| e) Furan | f) Quinoline |

B) Write the name of drugs containing following -heterocyclic rings (**any four**) :

- | | |
|--------------------|--------------------|
| a) Acridine | b) Indole |
| c) Barbituric acid | d) β -lactam |
| e) Pyrazine | f) Benzodiazepine |

C) Define the following terms (**any four**) :

- | | |
|---------------------|----------------------|
| a) Analgesics | b) Antihypertensives |
| c) Antibiotics | d) Disinfectants |
| e) Sympathomimetics | f) Hypnotics |

D) Give structures of (**any four**) :

- | | |
|----------------|-------------------|
| a) Adrenaline | b) Chlorpropamide |
| c) Paracetamol | d) Isoniazid |
| e) DEC | f) Sulphacetamide |

P.T.O.



E) Give uses of **(any four)** :

- | | |
|-----------------|-----------------|
| a) Testosterone | b) Warfarin |
| c) Nystatin | d) Chlorocresol |
| e) Procaine | f) Caffeine |

F) Give brand names of **(any four)** :

- | | |
|---------------|---------------------|
| a) Phenytoin | b) Thyroxine |
| c) Furosemide | d) Phenformin |
| e) Ibuprofen | f) Chlorpheniramine |

G) Name any two drugs used in following diseases **(any four)** :

- | | |
|---------------|---------------|
| a) Malaria | b) Glaucoma |
| c) Thrombosis | d) Allergy |
| e) Asthma | f) Amoebiasis |

2. Attempt **any three** of the following :

12

- A) Classify antihypertensive drugs with suitable examples.
- B) Write structure, chemical name, uses and brand names of Diphenhydramine.
- C) Define and classify antineoplastic drugs with suitable examples.
- D) Write structure, chemical name, uses and brand name of Penicillin V.
- E) What do you mean by hypoglycaemic agents ? Give source, stability, storage uses and pharmaceutical formulations of Insulin.

3. Attempt **any three** of the following :

12

- A) Give storage conditions for
 - a) Cyclopropane
 - b) Diethyl Ether
 - c) Glyceryl Nitrate
 - d) Thrombin.



MARKS

- B) Classify diuretics and give structure and two brand names of hydrochlorothiazide.
- C) Define and classify antitubercular drugs. Write structure and chemical name of PAS.
- D) Explain the 'Combination Cotrimoxazole', Give its uses and two brand names.
- E) Give chemical classification of Antiamoebic drugs and draw structure of Metronidazole.

4. Attempt **any three** of the following :

12

- A) Define 'Local Anaesthetics'. Write structure, chemical name and dosage form of lignocaine.
- B) Write structure, chemical name, uses, dosage forms and brand names of Indomethacin.
- C) Define and classify anthelmintics. Give uses and brand names of Mebendazole.
- D) What are anticholinergics ? Classify them with suitable examples. Give structure of any one acetyl cholinesterase inhibitor drug.
- E) Write structure, chemical name, uses and dosage forms of Thyroxine.

5. Attempt **any three** of the following :

12

- A) Explain the term 'Diagnostic Agents'. Classify them and give uses of
 - i) Sulphobromophthalin sodium
 - ii) Fluorescein sodium.
- B) Write uses of :
 - a) Cyanocobalamine
 - b) Niacin
 - c) Pyridoxine
 - d) Ascorbic acid.
- C) Classify antibiotics on the basis of biosynthesis and chemical nature with examples.
- D) Classify Antiseptics and disinfectants. Draw structure of proflavine.
- E) Draw structure and chemical name of
 - a) Procaine
 - b) Menadione



6. Attempt **any three** of the following :

- A) Classify anticonvulsants. Draw structure of Diazepam.
 - B) Write structure, uses, chemical name, brand name of DDS.
 - C) Classify analgesics and antipyretics. Give structure of paracetamol.
 - D) Give properties, uses, dosage forms, brand names of Hydrocortisone.
 - E) Write structures of following :
 - i) N, N-diethyl pyridine - 3- carboxamide.
 - ii) N' – (2-pyrimidinyl) sulfanilamide
 - iii) 4 – [4 – (p-chlorophenyl), 4-hydroxy piperidine] 4' fluorobutyrophenone.
 - iv) N, N' - Ethylene-Bis (2-amino-butan-1-ol)
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