

0812

21819

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.

**Marks**

1. Attempt any EIGHT of the following: 16
- a) Give structure and numbering method for (any two):
- (i) Furan
  - (ii) Imidazole
  - (iii) Thiazole
- b) Define following terms (any two):
- (i) Diuretics
  - (ii) Antineoplastics
  - (iii) Anticoagulants
- c) Give the structure of following organic group (any two):
- (i) Cyano
  - (ii) Aniline
  - (iii) Benzyl
- d) Give the structure and numbering method for following (any two):
- (i) Benzimidazole
  - (ii) Acridine
  - (iii) Quinoline.

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- e) Give the uses of (any two):
- (i) Paracetamol
  - (ii) Proflavin
  - (iii) 5-Fluorouracil
- f) Give the stability – storage condition of (any two):
- (i) Heparin
  - (ii) Insulin
  - (iii) Thrombin
- g) Give the brand names of (any two):
- (i) Phenformin
  - (ii) Tetracycline
  - (iii) Aspirin.
- h) Give the names of two drugs from the following categories (any two):
- (i) Antiseptic and Disinfectant
  - (ii) Antihypertensives
  - (iii) Antihistaminics
- i) Draw the structure of the following (any two):
- (i) Caffeine
  - (ii) Haloperidol
  - (iii) DEC
- j) Give the structure and uses of (any one):
- (i) Atropine
  - (ii) Propranolol
- k) Define vitamins. Write the importance of Vit A.
- l) Write uses of (any two):
- (i) Evan's blue
  - (ii) Congo –red
  - (iii) Indigocarmine

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

- a) What is Co-trimoxazole? Explain mechanism of action and give two brand names of Co-trimoxazole.
- b) Define “neoplasm” and classify antineoplastic agents.
- c) Explain diabetes mellitus. Classify hypoglycemic agents with examples.
- d) Give structure properties and uses of ‘Thyroxin’.
- e) Name the drug used in (any three):
  - (i) Myasthenia gravis
  - (ii) Leprosy
  - (iii) Gout
  - (iv) Tuberculosis
  - (v) Parkinsonism.
- f) Define Cholinergic drugs. Write the uses of Pilocarpine and Physostigmine.

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

- a) Define sedative and hypnotics. Classify them.
- b) Draw the structure of steroidal nucleus with numbering. Write uses of testosterone.
- c) Define “Cardiovascular agent”. Classify them based on their therapeutic uses with examples.
- d) What is Histamine? Give structure and uses of any antihistaminic agent.
- e) Give the structure and uses of (any two):
  - (i) Ampicillin
  - (ii) Halothane
  - (iii) Phenytoin
  - (iv) Hydrochlorthiazide
- f) Define and classify diuretics with examples.

- 4. Attempt any FOUR of the following:** **12**
- a) Define and classify Antiomalarial agents.
  - b) Define the term Cardiotonic. Write about their hydrolysis products.
  - c) Define Thymoleptics / Antidepressant. Give structure and uses of Imipramine.
  - d) Give the structure chemical name and uses of Dapsone.
  - e) Draw the structure from the chemical name and name the drugs:
    - (i) 4 amino 2 hydroxy benzoic acid
    - (ii) Ni-acetyl Sulfanilamide
  - f) Define CNS stimulants. Discuss their uses and draw structure of Coramine.
- 5. Attempt any FOUR of the following:** **12**
- a) What is Amoebiasis? Write structure and uses of Metronidazole.
  - b) Define and classify general Anaesthetics based on their route of administration.
  - c) Define antibiotics. Give structure preparation and uses of Benzyl Penicilline.
  - d) Define Local Anaesthetics. Write structure and chemical name of procaine hydrochloride.
  - e) What are Antihyperlipidemic Agents? Give properties and brand names of Clofibrate.
  - f) Name the respective vitamins of which nutritional deficiency leads to:
    - (i) Beri-beri
    - (ii) Rickets
    - (iii) Scurvy.

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

- a) What is epilepsy? Classify anticonvulsants with example.
  - b) Classify Antibiotics with examples.
  - c) Give structure, properties, uses and brand names of Phenobarbitone.
  - d) Give uses and preparation (any two):
    - (i) Chloramphenicol
    - (ii) Salbutamol
    - (iii) Hyoscine
    - (iv) Promethazine.
  - e) Give uses and stability – storage condition of (any two):
    - (i) Paraldehyde
    - (ii) Cyclopropane
    - (iii) Diethyl ether
    - (iv) Rifampicin
  - f) Write structure properties uses and preparations of Menadione.
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