

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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