

0812

11920

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) Assume suitable data, if necessary.
  - (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) Give structure and method of numbering for (any two)
    - (i) Pyridine
    - (ii) Acridine
    - (iii) Furan
  - b) Draw structure from given chemical name. (any two)
    - (i) N-acetyl sulfanilamide
    - (ii) 2-Bromo, 2-Chloro-1, 1, 1-trifluoroethane
    - (iii) Ethyl - P - amino benzoate
  - c) Write name and structure of the drug containing following heterocycle. (any two)
    - (i) Pyridazine
    - (ii) Barbituric acid
    - (iii) Penam

P.T.O.

- d) Define the following terms with example. (any two)
- (i) Cardiotonic
  - (ii) Vasodilator
  - (iii) Antidepressants
- e) Give two brand names of following drugs (any two)
- (i) Paracetamol
  - (ii) Metronidazole
  - (iii) Salbutamol
- f) In what dosage form the following drugs are given (any two)
- (i) Insulin
  - (ii) Mebendazole
  - (iii) Procaine
- g) Write structures of the following groups (any two)
- (i) Benzoyl
  - (ii) Vinyl
  - (iii) Amino
- h) Give uses of Evans blue and Indigo-carmin.
- i) Classify antitubercular drugs with examples.
- j) Write structure of the following drugs. (any two)
- (i) Ethambutol
  - (ii) Phenbutazone
  - (iii) Atropine
- k) Name the drug present in following brands. (any two)
- (i) Mebex
  - (ii) Valium
  - (iii) Corex
- l) Write uses of the following. (any two)
- (i) Thiambutosine
  - (ii) Thyroxin
  - (iii) Thrombin

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

- a) Classify Antimalarial drugs. Give structure of Chloroquine.
- b) Name one drug used for :
  - (i) Candidiasis
  - (ii) Amoebiasis
  - (iii) Leprosy
- c) Classify Adrenergic drugs. Draw structure of any one Catecholamine.
- d) Draw the basic steroidal nucleus with numbering. Give properties and uses of testosterone.
- e) Define diuretics? Give any one method of classification for diuretics with example.
- f) What are antihistaminics? Give classification of antihistaminics with examples.

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

- a) Write structure, give chemical name, properties and uses of Caffeine.
- b) Name any two halogenated hydroxy quinolines. Draw structure and give chemical name for DEC.
- c) Name two barbiturates used as “General Anaesthetics”. Draw structure and give chemical name of Phenobarbitone.
- d) Give structure, chemical name and storage conditions of Aspirin.
- e) What are narcotic analgesics? Give classification of narcotic analgesics with examples.
- f) What are vitamins? Give classification of vitamins with example.

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

- a) Classify antibiotics with examples.
- b) Explain the terms ‘Lipid Lowering Agent’. Give properties and uses of Clofibrate.
- c) Define anti-neoplastic drugs. Write uses of cyclophosphamide and methotrexate.

P.T.O.

- d) Define 'Parasympathomimetics'. Give properties and uses of Pilocarpine.
- e) Define 'Diabetes mellitus'. Discuss storage, precautions and labelling of Insulin preparations.
- f) Give structure, chemical name, properties and uses of 'Indomethacin'.

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

- a) What are Cardiovascular drugs? Classify them with examples.
- b) Write structure, give chemical name, properties and uses of Penicillin G.
- c) What are tranquillizers? Write structure give chemical name and popular trade name of Chlorpromazine.
- d) Name one biguanide derivative used as hypoglycaemic agent. Write its structure and uses.
- e) Write structure of Propantheline bromide give its chemical name, properties and uses.
- f) Name two antithyroid drugs. Draw structure of thyroxine.

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

- a) Write the name of the microorganism which is responsible for human Leprosy. Write structure, give chemical name, properties and uses of DDS.
- b) Write structure and give chemical name of PAS and Pyrazinamide.
- c) Write structure, give chemical name, properties and uses of Furosemide.
- d) Draw structure of Pyrimethamine. Give its properties, storage conditions and pharmaceutical uses.
- e) What are general anaesthetics? Classify them with examples. Draw structure of cyclopropane.
- f) What are 'Local Anaesthetics'? Write structure, give chemical name of local Anaesthetic drug having following chemical feature.
  - (i) Ester
  - (ii) Amide