

TKN/KS/16-6994

Fifth Semester Examination for the Degree of Bachelor of Pharmacy

PHARMACEUTICAL MEDICINAL CHEMISTRY – I

5 T2

Time : Three Hours]

[Max. Marks : 80

N. B. : (1) Question No. 1 is compulsory.

(2) Solve any four questions from the remaining.

(3) Draw neat labelled diagram wherever necessary.

 1. Solve any **five** of the following :—

(A) Draw structure, IUPAC Name, uses and synthesis of Phenytoin.

(B) Justify, why Carbodopa is given in combination with Levodopa.

(C) Discuss role of phosphodiesterase inhibitors.

(D) Justify 5, S – disubstituted barbiturates shows sedative and hypnotic activity.

(E) How solubility affects absorption and distribution of drugs ?

(F) Draw structure, IUPAC name, uses and synthesis of Aspirin.

(G) What are Autocoids ? Explain in brief.

5 × 4 = 20

2. Describe phase I and Phase II reactions with examples.

15

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Contd.

3. (A) Define and classify Sedative and Hypnotics. Write mode of action and synthesis of one drug from Benzodiazepine class.

10

(B) Write note on antiepileptic agents.

5

4. What are Narcotic analgesics and classify them ? Explain SAR of any one class of opioid Analgesics. Write synthesis of any one drug.

15

5. Classify Local anesthetics ? Discuss SAR, metabolism and synthesis of Lidocaine.

15

6. (A) Define and classify Antipsychotics.

7

(B) Write structure, IUPAC names synthesis and uses of any two H – 1 antagonists.

8

 7. Write notes on (any **three**) of the following :—

(a) Receptor site theory

(b) Hypoglycaemic agents

(c) Alzheimer's disease

(d) Thyroid and anti – thyroid Hormones

(e) Bronchodilators.

5 × 3 = 15

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430