

NKT/KS/17/6565

B.Pharm. Semester—V (C.B.S.) Examination PHARMACEUTICAL MEDICINAL CHEMISTRY-I

Paper—2

Time	: Three	Hours	[Maximum	Marks	: 80
Note	: —(1)	Question No. 1 is compulsory.			

- (2) Attempt any **four** questions from remaining.
- (3) Draw neat labelled diagrams wherever necessary.
- (4) Discuss the reaction, mechanism wherever necessary.
- 1. Solve any **five** of the following:
 - (A) Draw diagram of blood brain barrier and discuss its role.
 - (B) Draw structure and write chemical name, uses and synthesis of phenobarbitone.
 - (C) Explain with structures metabolism of paracetamol and write about its actions and toxicity.
 - (D) What is prodrug? Discuss principles of prodrug designing with examples.
 - (E) Discuss oxytocics with examples.
 - (F) Draw structure and write IUPAC name, uses and synthesis of Xylocaine.
 - (G) Write note on expectorants and antitussives.

 $5 \times 4 = 20$

- 2. Explain metabolism of histamine. Write in detail about chemical classification, mode of action and side effects of H, and H, antihistaminic agents.
- Define convulsions. Classify chemically anti-convulsant agents. Write mode of action and synthesis
 of one drug from hydontoin class.
- 4. (A) Define and classify anti-depressants.

8

(B) Write note on thyroid hormones and antithyroid drugs.

- 7
- What are NSAIDs? Discuss salol principle and write in detail about chemical classification, mode of action and side effects of NSAIDs.

NXO—12541 1 (Contd.)



www.FirstRanker.com

www.FirstRanker.com

_									_
6	(A)	L)escribe	nhase	Ш	metabolism	reactions	with	examples	

(B) Write note on anti-asthmatic agents.

8

- 7. Write notes on any three of the following:
 - (A) Physicochemical parameters affecting drug action.
 - (B) Prostaglandins and eicosanoids.
 - (C) CNS stimulant agents.
 - (D) Drugs used in Parkinsonism.
 - (E) Sedatives and hypnotics.

5×3=15

Man Fitzikatiket com

NXO—12541 2 NKT/KS/17/6565