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

Paper-2

Time : Three Hours]

[Maximum Marks : 80

8

7

(Contd.)

- 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. 5×4=20
- Explain metabolism of histamine. Write in detail about chemical classification, mode of action and side effects of H₁ and H₂ antihistaminic agents.
 15
- Define convulsions. Classify chemically anti-convulsant agents. Write mode of action and synthesis of one drug from hydontoin class.
 15
- (A) Define and classify anti-depressants.
 - (B) Write note on thyroid hormones and antithyroid drugs.
- What are NSAIDs ? Discuss salol principle and write in detail about chemical classification, mode of action and side effects of NSAIDs.
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- 6. (A) Describe phase II metabolism reactions with examples.
 - (B) Write note on anti-asthmatic agents.
- 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

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