

AV – 2305

Third Year B. Pharm. (Annual Pattern) Examination

MEDICINAL CHEMISTRY – I

Paper – III – T – 4

(USC – 35018)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

-
- Note :** (1) All questions carry equal marks.
(2) Answer any **Eight** questions.
(3) Discuss the reaction, mechanism wherever necessary.

1. What do you understand by term Drug Metabolism ? Explain in detail role of cytochrome P – 450 mixed function oxidase in oxidative metabolism. 10
2. What are phase – II reactions ? Explain in detail Acetylation and Methylation reactions. 10
3. Define Prodrugs. Explain types of prodrugs with examples. 10
4. Define sympathomimetic agents. Explain biosynthesis and metabolism of adrenergic neurotransmitters. 10
5. Define and classify cholinergic agents with examples. Explain SAR of Acetylcholine. 10
6. What are antianginal agents ? Classify them with examples. Write a detail account on Calcium channel blockers. 10

AV – 2305

P.T.O.

7. What are Diuretics ? Classify them with examples. Discuss in detail Thiazide diuretics. 10
8. What are hypnotics and Sedatives ? Classify them with examples. Write a note on Barbiturates. 10
9. What are Hypolipoproteinemic agents ? Discuss in detail HMGCoA reductase inhibitors. 10
10. Write a note on (Any Two) :—
(a) Antiepileptics. (b) CNS Stimulants. (c) Anticoagulants. 10

