

35162 : Medicinal Chemistry - I : T-5.2

P. Pages : 1

Time : Three Hours

**AW - 2308**

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** questions.
 3. Discuss the reaction, mechanism wherever necessary.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Define Drug metabolism. Explain in detail Glucuronic acid and sulfate conjugation reactions. **12**
2. What are prodrugs? Explain types of prodrugs with examples. Discuss various applications of prodrugs. **12**
3. Define and classify sympathomimetic agents with examples. Explain biosynthesis of adrenergic neurotransmitters. **12**
4. Define and classify anticholinergic agents with examples. Discuss SAR of anticholinergic agents. **12**
5. What are cholinergic agents? Explain SAR of Acetylcholine. Write a note on Reversible cholinesterase inhibitors. **12**
6. Enlist various physicochemical parameters which affect biological action of drugs. Explain any four of them. **12**
7. Write a note on **any two**. **12**
 - a) β -adrenergic receptor antagonists.
 - b) Role of cytochrome P-450 monooxygenase in oxidative metabolism of drugs.
 - c) Acetylation and methylation phase – II reactions.
 - d) Factors affecting Drug metabolism.
