



(LJ 4262)

**AUGUST 2016**

Sub. Code: 4262

**B.PHARM. EXAMINATION  
THIRD YEAR  
PAPER II – MEDICINAL CHEMISTRY - I**

*Q.P. Code: 564262*

**Time: Three hours****Maximum: 100 Marks****I. Elaborate on :****(2 x 20 = 40)**

1. Illustrate phase II reaction of Drug Metabolism with suitable example. Discuss the factors affecting Drug Metabolism.
2. Classify H<sub>1</sub> Receptor anti-histamines with example. Explain the SAR of anti-histamines and write the synthesis of Promethazine and Diphenhydramine.

**II. Short notes on :****(8 x 5 = 40)**

1. Write synthesis, mechanism and uses of chlorpromazine and prochlorperazine.
2. Write a note on adrenergic neurotransmitters.
3. Explain the synthesis of propranolol, carbachol.
4. Classify general anesthetics and give the synthesis of any one.
5. Write a note on anticonvulsants.
6. Discuss briefly about Thiazide diuretics.
7. Discuss briefly the methods of development of prodrugs.
8. Explain the chemistry and biological significance of prostaglandins.

**III. Short answers on :****(10 x 2 = 20)**

1. Define sedative and hypnotics and give one drug as example for each.
2. Write the SAR of tricyclic anti-depressant.
3. Write the structure, mechanism and uses of Haloperidol.
4. Define optical and geometrical isomerism in biological action of drugs.
5. Structure and use of pilocarpine, acetylcholine.
6. Write two structures of opioid analgesic.
7. Write the structure and use of Salsalate and Phenylbutazone.
8. Write the synthesis of procaine.
9. Define anti-tussive agent with examples.
10. Mechanism of action of Acetazolamide.

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