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[LC 4262]

FEBRUARY 2013

Sub. Code: 4262

THIRD YEAR B.PHARM. EXAM

Paper II - MEDICINAL CHEMISTRY - I

Q.P. Code: 564262

Time : Three hours Maximum: 100 Marks

(180 Min)

I. Elaborate on: (2x20=40)

1. a) Classify NSAIDs with examples. Write the synthesis for Ibuprofen and

Indomethacin (6+6)

- b) Explain the structure activity relationship of Morphine (8)
- 2. How the following physiochemical properties influences the drug's biological action
 - a) Ionization b) Protein Binding c) Stereoisomerism d) Steric effect (4X5=20)

II. SHORT NOTES (8X5=40)

- Write a note on Loop Diuretics.
- 2. Enumerate the factors affecting drug metabolism with examples
- 3. Write the synthetic route for Procaine and Dibucaine
- Explain the applications of prodrugs.
- Write the structures for a) Pheniramine maleate b) Meclizine c) Promethazine d) Ranitidine e) Omeprazole
- 6. Write the synthesis for Dicyclomine and Tropicamide
- 7. Explain the structure activity relationship of Barbiturates
- 8. What are Anticonvulsants? Classify them with examples

III. SHORT ANSWERS

(10X2=20)

- Dissociative anaesthesia
- Mechanism of action of Diazepine
- Define receptor and give examples
- 4. Structure and uses of Neostigmine and Bethanechol
- Two prostaglandins approved for human clinical use.
- 6. Synthesis of Imipramine HCl
- 7. Irreversible anticholinesterase agents
- Mechanism of action of Local Anaesthetics.
- β-2 stimulants
- Write the structure for Triflupromazine and Haloperidol

