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(LL 4262) AUGUST 2017 Sub. Code: 4262

## B.PHARM. DEGREE EXAMINATION THIRD YEAR PAPER II – MEDICINAL CHEMISTRY – I

Q.P. Code: 564262

Time: Three hours Maximum: 100 Marks

I. Elaborate on:  $(2 \times 20 = 40)$ 

1. a) Define Receptor and discuss the theories involved in Drug Receptor complex.

- Explain the different types of reaction in phase I metabolic pathways.
- 2. a) Discuss the classification, mode of action and SAR of NSAIDs.
  - b) Give the synthesis for Indomethacin, Ibuprofen and Phenylbutazone.

II. Write notes on:  $(8 \times 5 = 40)$ 

- Write about applications of prodrug design.
- Classify sedative and hypnotics with examples and give the synthesis of diazepam.
- Write a note on: i) Isosterism ii) Hydrogen bonding.
- 4. Define CNS stimulants and give the synthesis for:
  - i) Nikethamide
    ii) Imipramine HCL.
- Discuss Sympathomimetic agents and give the synthesis of salbutamol.
- Explain in detail about antihistaminic agents.
- Discuss SAR of barbiturates.
- 8. Define and classify diuretics with suitable examples.

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III. Short answers on:

 $(10 \times 2 = 20)$ 

- Define the term Tranquillise
- Structure and uses of methohexital sodium.
- Synthesis of Mephenytoin.
- Write the structures of Homatropine HBr and Tropicamide.
- Note on Neuromuscular blockers.
- Define Anti-tussive agents.
- Mode of action of Halothane.
- Structure and use of Naproxen.
- Note on Prostaglandins.
- H<sub>2</sub> receptor antagonists.

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