

MEDICINAL CHEMISTRY-I

Time: 3 hours**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
 Answering the question in **Part-A** is Compulsory,
 Three Questions should be answered from **Part-B**

PART-A

1. (a) Write the name and structure of any two five membered heterocyclic compound.
- (b) Out line one method of synthesis for quinoline.
- (c) Explain how the solubility affects the Drug activity.
- (d) Give the structure and therapeutic uses of Phenytoin and Ketamine.
- (e) Differentiate the local and narcotic analgesic with examples.
- (f) Explain the MOA of Omeprazole.

 $[4+3+4+4+4+3]$

PART-B

2. (a) Write the method of preparation and reactions of quinoline.
(b) Write the name, structure and uses of any four benzimidazole ring containing drugs. [8+8]
3. (a) Write a short notes on enzyme stimulation and enzyme inhibition.
(b) Define metabolism. Explain the factors affect the metabolism. [8+8]
4. (a) Classify Antipsychotics agents. Write the synthesis of Thiopental sodium.
(b) Write a note on SAR of barbiturate derivative of hypnotics. [8+8]
5. (a) Write a short notes on Neuromuscular blocking agents.
(b) Classify the Cholinergic drugs. Give the synthesis of Ephedrine. [8+8]
6. (a) Classify the NSAIDs.
(b) Write the synthesis and MOA of Methadone. [8+8]
7. (a) Discuss about proton pump inhibitors.
(b) Discuss the SAR of Sulphonyl Urea derivative of hypoglycemic agents. [8+8]

* * * * *