

**II B. Pharmacy II Semester Supplementary Examinations, April/May - 2019**  
**MEDICINAL CHEMISTRY-I**

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
2. Answering the question in **Part-A** is Compulsory  
3. Answer any **THREE** Questions from **Part-B**
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**PART -A**

1. a) Write structures of (4M)  
(i) 3,10-dimethyl-10H-phenothiazine (ii) 5-chloro-1H-benzo[d]imidazol-4-amine
- b) Write a note on enzyme stimulation. (4M)
- c) Write in brief on GABA modulators as antiepileptic agents. (4M)
- d) Write SAR of PABA derivatives as local anesthetic agents. (4M)
- e) Outline the biosynthesis of adrenaline. (3M)
- f) Write MOA and uses of propylthiouracil. (3M)

**PART -B**

2. a) Write three methods for synthesis of quinoline. (8M)
- b) Discuss the reactivity of pyridine. (8M)
3. a) Explain the role of bioisosterism in medicinal chemistry. (8M)
- b) Write in brief on Phase-I drug metabolism. (8M)
4. a) Classify antidepressants with examples. Write MOA, SAR and uses of imipramine. (10M)
- b) What are general anesthetics? Write properties of an ideal general anesthetic agent. (6M)
5. Write the structure, IUPAC name, MOA and uses of (16M)  
(a) Diazepam (b) Valproic acid (c) Chlorpromazine (d) Ketamine
6. Outline the synthesis and uses of (16M)  
(a) Propranolol (b) Amphetamine (c) Omeprazole (d) Cetirizine
7. a) Write in detail on MOA, SAR and clinical uses of aryl acetic acid NSAIDs. (9M)
- b) What are narcotic analgesics? Write in brief on morphine. (7M)