

**II B. Pharmacy II Semester Supplementary Examinations, November - 2020**  
**MEDICINAL CHEMISTRY-I**

Time: 3 hours

Max. Marks: 70

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- 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 **FOUR** Questions from **Part-B**
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**PART -A**

1. a) Write structures of 3-chlorophenothiazine and 2-methylimidazole (2M)
- b) What is bioisosterism? Give example. (2M)
- c) Write MOA of ketamine? (2M)
- d) What is a neuromuscular blocker? (2M)
- e) Write characteristics of an ideal local anesthetic? (2M)
- f) Why cetirizine does not cause drowsiness? (2M)
- g) Identify heterocycles present in Omeprazole. (2M)

**PART -B**

2. a) Write in detail on synthesis and reactivity of pyridine? (10M)
- b) Explain why C-3 of indole is very reactive? (4M)
3. a) Classify receptors with examples. Write in detail on ion channels? (10M)
- b) Write in brief on soft drugs? (4M)
4. a) Write a note on atypical antipsychotics? (8M)
- b) Discuss the role of halogenated hydrocarbons as general anesthetics. (6M)
5. Write structure, IUPAC name, MOA and uses of (14M)  
(a) Prazocin (b) Ethacrynic acid (c) Ibuprofen
6. a) Write MOA, SAR and clinical uses of Morphine? (7M)
- b) Discuss the importance of antihistamines as antiulcer agents. (7M)
7. Outline the synthesis and uses of (14M)  
(a) Diazepam (b) Imipramine (c) Atenolol