

II B. Pharmacy II Semester Supplementary Examinations, Nov - 2018
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 in brief on prodrugs. (4M)
- b) Explain the reason why imidazole is basic? (3M)
- c) Write in brief on ultra-short acting barbiturates. (4M)
- d) Write short notes on Adrenaline. (4M)
- e) Write SAR of Morphine. (4M)
- f) Write in brief on omeprazole. (3M)

**PART -B**

2. a) Write three methods for synthesis of pyridine. (8M)
- b) Discuss the reactivity of Indole. (8M)
3. a) Write in detail on Phase II drug metabolism. (8M)
- b) Write in detail on enzyme inhibitors. (8M)
4. a) Explain MOA, SAR, uses and toxicity of SSRIs. (8M)
- b) Write a note on PABA amide local anesthetics. (8M)
5. Write structure, IUPAC name, MOA and uses of (16M)  
(a) Alprazolam (b) Phenytoin (c) Ibuprofen (d) Methimazole
6. a) Classify oral hypoglycemics with examples. Write in detail on MOA, uses and toxicity of glipizide. (8M)
- b) Write in detail on H<sub>2</sub>-antagonists. (8M)
7. Outline the synthesis and uses of (16M)  
(a) Thiopental sodium (b) Valproic acid (c) Meperidine