

Code No: PHR16224

**R16****SET - 1****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 **FOUR** Questions from **Part-B**
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**PART -A**

1. a) Write structures of 5-fluorouracil and 2-methylindole (2M)
- b) What is a soft drug? Give example. (2M)
- c) Write MOA of iproniazid. (2M)
- d) What is a dissociative anesthetic? (2M)
- e) Write characteristics of an ideal general anesthetic. (2M)
- f) Why COX-I inhibitors cause gastric problems? (2M)
- g) Identify heterocycles present in Alprazolam. (2M)

**PART -B**

2. a) Write in detail on synthesis and reactivity of quinoline. (10M)
- b) Explain why pyrrole is not basic? (4M)
3. Write in detail notes on (14M)  
(a) Enzyme inhibition (b) Phase II metabolic reactions
4. a) Explain MOA, SAR and clinical uses of Fluoxetine. (6M)
- b) Classify antiepileptics with examples. Write in detail on Hydantoins. (8M)
5. Write structure, IUPAC name, MOA and uses of (14M)  
(a) Phenobarbital (b) Salbutamol (c) Indomethacin
6. a) Write MOA, SAR and clinical uses of PABA ester based local anesthetics. (7M)
- b) Explain the MOA, SAR and uses of sulfonylureas as antihyperglycemics. (7M)
7. Outline the synthesis and uses of (14M)  
(a) Haloperidol (b) Meperidine (c) Diphenhydramine