

Code No: B132204

R13**SET - 1****II B. Pharmacy II Semester Supplementary Examinations, April - 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 the two examples of drugs that having the isoquinoline ring system. (3M)
- b) Define prodrugs and soft drugs. (4M)
- c) Classify general anaesthetics with example. (4M)
- d) Write the SAR of ephedrine. (3M)
- e) Define Local anaesthetics and give examples with chemical structure. (4M)
- f) Write the mode of action of antihyperglycemic agents. (4M)

PART -B

2. a) Write the important reactions of imidazole and pyrazole. (6M)
- b) Write the nomenclature and two methods of preparation of benzimidazole and phenothiazine. (6M)
- c) Draw the structure and nomenclature of furan and acridine. (4M)
3. a) Explain Phase I and Phase II reactions and factors affecting drug metabolism. (10M)
- b) Write a note on chelation and surface activity. (6M)
4. a) Define and classify Antidepressants. Write the synthesis of imipramine and amitriptyline. (7M)
- b) Write the synthesis and uses of chlorpromazine and haloperidol. (5M)
- c) Draw the structure and uses of Phenobarbital, diazepam and alprazolam. (4M)
5. a) Define and classify Adrenergic drugs and write the synthesis amphetamine and salbutamol. (8M)
- b) Write the synthesis, mode of action, SAR and uses of Carbachol and bethanichol. (8M)
6. a) Classify NSAIDs and write the synthesis of ibuprofen and diclofenac. (8M)
- b) Draw the structure, mode of action and uses of mepridine and methadone. (4M)
- c) Write the synthesis and uses of benzocaine and procaine. (4M)
7. a) Classify H₂-receptor antagonists and write the synthesis of ranitidine. (6M)
- b) Write the synthesis and uses of gliclazide, glipizide and glibenclamide. (6M)
- c) Discuss the SAR, mode of action and uses of methimazole and propylthiouracil. (4M)