Ref. No.: Ex//Pharm/T/212//2017(S)

B.Pharm. 2nd Yr 1st Sem. Supple Exam.-2017

Subject: PHARM CHEMISTRY-III (Organic) Time: 3 Hours Full Marks: 100

Answer any five questions taking atleast two from each group.

Group A

Answers to all parts of a question should be at the same place of the answer-script and in the same order as they appear in the question paper.

| 1. | Write explanatory notes on nomenclature of heterocyclic systems. | [20 |
|----|--|-------|
| 2. | Give synthesis and some reactions of Quinoline and Isoquinoline. | [12+8 |
| 3. | Write a note on aromatic and non-aromatic character of furan. | [20 |

Ref.No.: EX/PHARM/T/212/2017(S)

Subject: PHARMACEUTICAL CHEMISTRY -III (ORGANIC II)

Time: 3 Hours Full Marks: 100

Group-B/

- Q.4. Out line the synthesis of a) Phenothiazine b) Benzoxazole c)Benzothiazole d) Quinoxaline e) 2-amino pyridine 4X5=20
- Q.5 .a)Draw the structure of i) Quinazoline ii) 2,5 Diketopiperazine iii) Benz- imidazole iv)
 Thiazolidine v)Pteridine 2x5=10
 - b) Which position of barbituric acid is important for derivatization? Mention three drugs out of this derivatization. 1+4=5
 - c)Outline the synthesis of a) Pyrimidine and b) Piperazine

2.5+2.5=5

6

- Q.6. a) what are 6-APA and 7-ACA? Explain their structural differences. Mention three oral and three injectable drugs from both the categories.

 4+4+6
 - b) Explain the mode of action of beta-lactam antibiotics in detail
- Q.7. What are anti coagulants? What is the mode of action of anti coagulants? Classify them. 2+3+3
 What are the uses of anticoagulants? Outline the synthesis of a) Warfarin and b)Dicoumarol 4+4+4