Ref. No. : Ex//Pharm/T/422//2017 (Old)

B.Pharm. 4th Yr 2nd Sem. Exam.-2017 (Old)

Subject:MED CHEMISTRY-IV **Time : 3 Hours** **Full Marks : 100**

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.

Answer any ***five*** questions taking atleast ***one*** from each group.

1. Discuss the basic steps of development and validation of a QSAR model. [20

2. Write notes on:
   (i) Hydrophobic substituent constant
   (ii) STERIMOL parameters
   (iii) Taft steric parameter [7+7+6

3. Discuss on:
   (i) Conformational analysis
   (ii) Docking
   (iii) Pharmacophore
   (iv) 2D QSAR vs 3D QSAR [4 x 5

EX/PHARM/T/422/2017

TIME: 3 hrs

F.M.-100

BACHELOR OF PHARMACY 4th YR 2nd SEMESTER-2017 (Old)

MED. CHEM.-IV

GROUP - B

4. a) What are the different characteristics of vitamins?

b) Write short note on adrenocorticoids antagonists.

c). Discuss the steps involved in retinol conversion.

d). How is vitamin D_3 formed from photochemical reaction?

5+5+5+5=20

5. a) What is the metabolic role of riboflavin?

b) How can vitamin B_6 family be interconvertible?

c) How can folic acid be reduced to THF?

d) How can ascorbic acid be biosynthesized?

3+6+4+7=20

6. a) Write down the steroid structure and corresponding natural hormones.

b). Discuss the routes of biosynthesis of prednisolone from cholesterol.

c). How can adrenocorticoids be biosynthesized from cholesterol?

d). Give some structure and uses of systemic corticosteroids.

5+5+5+5=20

2017

B Pharmacy Fourth Year Second Semester Examination 2017

Medicinal Chemistry - IV

00

Answer Five questions taking at least one from each group

Group - C

Time - 3 hours

Full marks- 100

Q7. a) In combinatorial synthesis solid phase technique is used. Write in details about this technique. -10

b) Discuss on the methods of structure determination of compound library obtained from combinatorial synthesis. - 10

5=20

Q8. Write in details about technique used in HIGH THROUGH PUT screening. - 20

7=20

5=20