B. PHARMACY FOURTH YEAR SECOND SEMESTER - 2018

Medicinal Chemistry IV

Time: 3 hours Full Marks 100

Answer any five questions taking at least TWO from each group. Answers to all parts of a question should be written in the same place.

GROUP - B

f. Write notes on:

-6+7+6

- (a) Hammett sigma (b) Topliss scheme (c) Craig plot
- Give an explanatory note on CoMFA and use of PLS regression in CoMFA analysis [20]
- 7. Discuss on the followings:

[4x5

- (i) Conformational analysis
- (ii) Molecular mechanics
- (iii) de novo ligand design
- (iv) STERIMOL paramters

Ref.No.: Ex/PHARM/ T/422/2018

Name of the Examinations: B.PHARMACY FOURTH YEAR SECOND SEMESTER-2018

Subject: MEDICINAL CHEMISTRY-IV

Time: THREE HOURS

Full Marks: 100

Group-A

Answer any five questions taking at least two from each group

Q.1.a) Outline the synthesis of artificial hormone used for induction of estrous phase animals.	in the laboratory
b) How the sex steroid hormones are classified? Give one example from each category	. 6
c) How testosterone is synthesized from cholesterol?	6
Q.2.a) Explain the structural features and actions oxytocin and vasopressin.	6
b)What are anabolic steroids? Give examples.	4
c)What are different forms of ACTH? Give examples.	6
d) What are oral and non-oral progestins? Give examples from long acting formulation from this	
category.	4
Q.3.a) Explain different forms of vitamin D. How they are manufactured? How they are preserved in	
formulation?	2+6+2
b) Outline the industrial synthesis of vitamin C.	6
c)How different forms of vitamin B-6 are synthesized?	4
Q.4.a) What are immunostimulants and immunosuppressive agents? Give examples. 2	2+4
b) Outline the synthesis of one i-stimulant and one i- suppressive agent. 6+	6
c) What is the common structural unit present in fat soluble vitamin?	