Subject Code: B133204/R13

III B. Pharmacy II Semester Regular Examinations April - 2017 MEDICINAL CHEMISTRY-III

Time: 3 hours Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B**Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B*******

PART-A

- 1. (a) Describe the physicochemical parameters of QSAR studies.
 - (b) Write short notes on pharmacophore modeling.
 - (c) Write a note on natural and synthetic estrogens.
 - (d) Write the mechanism of action of digitalis.
 - (e) Explain about coronary vasodilators.
 - (f) Write the synthesis of Acetazolamide.

[4+4+4+4+3+3]

PART-B

- 2. (a) Write the classification, mode of action and uses of cardiac glycosides.
 - (b) Explain mode of action and synthesis of procainamide.

[10+6]

- 3. (a) Explain the physicochemical and Stearic parameters of QSAR methods.
 - (b) Write a note on principles of combinatorial chemistry.

[8+8]

- 4. Outline the synthesis and uses of the following
 - (i) Clonidine
 - (ii) Losartan
 - (iii) Methyl dopa
 - (iv) Isosorbide dinitrate

[4+4+4+4]

- 5. (a) Define and classify diuretics with examples.
 - (b) Explain mode of action and SAR of high ceiling diuretics and carbonic anhydrase inhibitors. [6+10]
- 6. (a) Describe about the types of receptors
 - (b) Write about synthesis of Progesterone from Diosgenin.
 - (c) Write the classification, structures and uses of bile acids.

[5+6+5]

- 7. (a) Explain structures, SAR, uses and toxicity of steroidal anti inflammatory drugs.
 - (b) Write about interconversions of estrogens.

[10+6]

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