Code No: RAB134210 **R13** RA

IV B. Pharmacy II Semester Regular/Supplementary Examinations, April - 2019
MEDICINAL CHEMISTRY-III

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**

~~~~~~

PART –A

1. a) Write in brief on role of hydrogen bonding in drug-receptor interaction. (4M)
   b) What is high throughput screening? Write its advantages and disadvantages. (4M)
   c) Write structures of bile salts and their biochemical significance. (4M)
   d) Write MOA and clinical uses of quinidine. (3M)
   e) What is Renin-Angiotensin system? (3M)
   f) Write in brief on carbonic anhydrase inhibitors. (4M)

PART -B

2. a) Write principles of combinatorial chemistry. Add a note on its significance in drug discovery process. (8M)
   b) Write in brief on Hansch QSAR analysis. (8M)

3. a) Explain the structure and functioning of G-protein coupled receptors. (8M)
   b) What is a pharmacophore? Write in brief on methods used for pharmacophore modeling. (8M)

4. a) Write MOA, SAR and clinical uses of steroidal anti-inflammatory agents. (8M)
   b) Write the procedure and industrial applications of Marker synthesis. (8M)

5. Write structure, IUPAC name, MOA and uses of (16M)
   (a) Propranolol (b) Diltiazem (c) Chlorthiazide (d) Procainamide

6. a) Write in detail on ACE inhibitors. (8M)
   b) Explain the MOA, SAR and uses of potassium sparing diuretics. (8M)

7. Write the synthesis and uses of (16M)
   (a) Isosorbide dinitrate (b) Clonidine (c) Acetazolamide (d) Diltiazem
~~~~~~