

Subject Code: B133204/R13**III B. Pharmacy II Semester Supplementary Examinations Nov. - 2016****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

- (a) Explain the role of electronic parameters in QSAR study.
(b) Describe briefly about steric parameters.
(c) Write a note on polarizability in QSAR study.
(d) Classify bile acids.
(e) Describe briefly about lipophilicity of a drug molecule with examples.
(f) Write the mechanism of action involved in cardiac glycosides.

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

PART-B

- Write the classification, structures, SAR, uses and toxicity of steroidal anti-inflammatory agents. [16]
- Give the synthetic procedure of following
(i) clonidine (ii) ethacrynic acid (iii) methyl dopa (iv) hydrochlorthiazide [4+4+4+4]
- (a) Write the SAR of ACE inhibitors.
(b) Give structures and Mechanism of action (MOA) of
(i) ACE Inhibitors (ii) Thiazide diuretics
(iii) K⁺ sparing diuretics (iv) loop diuretics [6+10]
- (a) Write the classification and MOA, SAR and uses of anti-anginals drugs with examples.
(b) Explain the MOA and therapeutic uses of various classes of anti arrhythmic drugs. [10+6]
- (a) Describe the following
(i) Hansch analysis (ii) Free nilson analysis
(b) Discuss the principle, procedures and applications of high throughput screening? [8+8]
- (a) Classify anti hypertensive drugs with structures. Discuss about SAR of β -blockers.
(b) Write the structures, functions and uses of natural and synthetic estrogens with examples. [10+6]
