

Pharmacy,

Code No. 8048 / S

FACULTY OF PHARMACY**B. Pharmacy 3/4 I – Semester (Supplementary) Examination, April 2015****Subject : Medicinal Chemistry - I****Time : 3 hours****Max. Marks : 70****Note: Answer all questions. All questions carry equal marks.**

- 1 a) Explain physicochemical properties which influence biological activity. 7
b) Write the importance of bio-isosterism in drug design. 7
OR
b) Discuss about prodrug approach in drug design. 7
d) Give a note on drug distribution and protein binding. 3+4
- 2 a) Explain S.A.R. of Acetyl cholinesterase inhibitors. 6
b) Give the structure, synthesis and MoA of following : 4+4
A) Dicyclomine HCl B) Carbachol
OR
c) Write a note on skeletal muscle relaxants. 6
d) Discuss S.A.R. of Adrenomimetics. 8
- 3 a) Classify anti arrhythmic drugs with suitable example and explain S.A.R. in detail. 2+6
b) What are antihypertensives with examples? Give the synthesis of captopril and clonidine. 2+2+2
OR
c) Write a note on Anti-hyperlipidemic agents. 5
d) Write a note on Cardiac glycosides and their mechanism of action. 5
e) Give the structure and synthesis of verapamil and dipyridamole. 2+2
- 4 a) Write a note on positive Inotropic agents. 5
b) Give the structure, synthesis and MoA of following : 3+3+3
1) Amiloride 2) Tolbutamide 3) Propylthiouracil
OR
c) What are diuretics and give the classification with suitable examples. 1+2
d) Add a note on oral hypoglycemic agents. 5
e) write a short note on Immunomodulator drugs. 6
- 5 a) Write the structural activity relationship and MoA of proton pump inhibitors. 8
b) Give the synthesis and MoA of Ranitidine and chlorpheniramine. 3+3
OR
c) Discuss about coagulants and anti-coagulants. 2+4
d) Give the structure, synthesis and MoA of Diphenhydramine and Omeprazole. 4+4
