

Code No. 6048

FACULTY**B. Pharmacy 3/4 I – Semester (Suppl.) Examination, April 2016****Subject: Medicinal Chemistry – I****Time: 3 Hrs****Max.Marks: 70****Note: Answer All questions. All questions carry equal marks.**

- 1 a) Explain with examples the importance of partition coefficient in relation to biological activity of drugs. 7
b) What are prodrugs? How are they obtained? Mention their merits and demerits. 7
OR
c) Discuss with suitable examples the influence of steric features of drugs on biological activity. 7
d) Discuss with examples the importance and significance of Phase II reactions. 7
- 2 a) Classify anionic blocking agents with examples, write the mode of action, SAR and outline the synthesis of Mecamylamine. 2+3+5+4
OR
b) Write short notes on:
i) Adrenergic blocking agents 7
ii) Cholinergic blocking agents 7
- 3 a) What are anti arrhythmic agents? Classify them with examples, discuss the mode of action and SAR. 2+3+3+3
b) Write the synthesis and specific uses of Nifedipine. 3
OR
c) Give an account of:
i) Cardiotonic drugs 7
ii) Vasodilators 7
- 4 a) Outline the synthesis and uses of (a) Amiloride (b) Tolbutamide (c) Propylthiuracil 5+5+4
OR
b) Write briefly on (a) Thyroid agents (b) Immunosuppressant. 7+7
- 5 a) Classify H₂ receptor antagonists with examples, write the mode of action and SAR. Outline the synthesis and uses of Ranitidine. 3+2+3+6
OR
b) Outline the synthesis and uses of (a) Omeprazole (b) Cetrizine (c) Diphenhydramine. Write a note on anticoagulants. 6+5+3
