

Code No. 4048

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

- 1 a) Write abt bioisosterism and steric factors of drus. 7
b) Explain the concept of pro and soft dru approach. 7
OR
c) Explain abt the followin terms with examples
i) Lipophilicity
ii) Partition coefficient
iii) Solubility
iv) Ionization 4+3+4+3
- 2 a) Explain S.A.R of adreneric blockin aents. 8
b) Write the synthesis and mechanism of action of mecamylamine HCl and Meprobamate. 6
OR
c) ive the structure, s synthesis and mechanism of action of followin: 7
i) Isoproterenol
ii) Salbutamol
d) Add a note on neuromuscular blockin aents. 7
- 3 a) Classify antihypertensive drus with examples and SAR of ACE inhibitors. 9
b) Explain mechanism of action and uses of cardiac lycosides. 5
OR
c) Define and classify antihyperlipidemic drus with examples and SAR of statins. 7
d) ive the synthesis of followin
i) Diltiazem 3
ii) Captopril 4
- 4 a) Define and classify diuretics with examples. Write the mechanism of action and therapeutic uses of carbonic anhydrase inhibitors. 7
b) Discuss the mechanism of action and limitations of oral hypolycemic aents. 7
OR
c) Write a note on positive inotropic aents. 7
d) ive a note on immuno suppressants and immuno stimulants. 7
- 5 a) Classify anti histaminic aents. Discuss in detail mechanism of action of H₁ antaonists. 14
OR
b) ive a note on proton pump inhibitors. 7
c) Discuss in detail abt coaulants and anticoaulants. 7
