FACULTY

B. Pharmacy 3/4 I – Semester (Main) Examination, November 2017

Subject : Medicinal Chemistry – I

Time : 3 hrs **Max. Marks : 70**

Note : Answer all questions. All questions carry equal marks.

1 a) What do y mean by prodru approach in dru desin? How is it achieved? 7
b) Write the importance of steric features of drus. 7

OR

c) Define and ive their sinificances for the followin : 4 x 3
i) Lipophilicity ii) Chelation iii) Partition coefficient
iv) Ionization

2 a) Explain the S.A.R. of β adreneric blockin aents. 8
b) ive the synthesis and uses of i) Salbutamol ii) Mecamylamine HCl 3 x 2

OR

c) What are cholineric drus? Write the mode of action and S.A.R. 8
d) tline the synthesis and uses of the followin :
i) Dicyclomine ii) Meprobamate 2 x 3

3 a) Classify Ani hypertensives with examples and SAR of ACE inhibitors. 8
b) Write the synthesis and uses of clonidine and Dipyridamole. 3+3

OR

c) ive an accnt of : 7+7
i) Cardiotonic drus ii) Vasodilators

4 a) Add a note on positive inotropic aents. 8
b) Write the synthesis and uses of i) Amrinone ii) Tolbutamide 3+3

OR

c) Define and classify diabetes with examples. Write the MoA and uses of carbonic antydrase inhibitors. 8
d) ive the synthesis and uses of followin :
i) Amiloride ii) Furosemide 6

5 a) Classify Anti histamine aents. ive the SAR of any two classes of H_1 – Antihistaminics. 8
b) Write a note on proton pump inhibitors. 6

OR

c) Discuss in detail abt coaulants and anticoaulants. 6
d) Write the synthesis and MoA of followin : 4+4
i) Omeprazole ii) Diphenhydramine

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