

FACULTY

**B. Pharmacy III/IV II–Semester (Non CBCS) (Backlo) Examination,
November 2018**

Subject: Medicinal Chemistry I

Time: 3 Hrs

Max. Marks: 70

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

1. a) Write the importance of steric features of drug 7
 b) Explain the concept of pro and soft drug approach. 7

OR

 c) Discuss in detail phase I reactions involved in the drug metabolism. 8
 d) Explain about (i) lipophilicity (ii) Solubility with examples 6

2. a) Write the pharmacological actions of Adrenaline and discuss the SAR of adrenomimetics. 8
 b) Give the structure and synthesis of following 3+3
 i) Salbutamol ii) Isoproterenol

OR

 b) Write a note on following 7+7
 i) Cholinergic blocking agents
 ii) Skeletal muscle relaxants

3. a) Define anti hypertensive and give the classification with examples. 5
 b) Write the SAR of ACE inhibitors. 5
 c) Give the structure and synthesis of clofibrate. 4

OR

 d) Add a note on Antiplatelet drugs 7
 e) Discuss about cardiotonic agents 7

4. a) Give the classification of oral hypoglycemic agents with examples. 4
 b) Add a note on positive inotropic agents 6
 c) Give the structure, uses and synthesis of Tolbutamide. 4

OR

 d) Define and classify diuretics with examples. Write the MOA and SAR of carbonic anhydrase inhibitors. 1+2+5
 e) Add a note on Immunosuppressants. 6

Contd..2..

5. a) Define and classify Anti histaminic agents with examples.
b) Give the SAR of any two classes of H₁ Anti histaminic.
c) List the coagulation factors.

7

4

OR

- d) Write the structure, synthesis, MOA and uses of following

5x4 = 14

i) Chlorpheniramine

ii) Ranitidine

iii) Omeprazole

iv) Warfarin

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