

Code No. 13255/Non CBCS

**FACULTY OF PHARMACY****B. Pharmacy 3/4 I Semester (Non CBCS) (Backlo) Examination, July 2019****Subject : Medicinal Chemistry I****Time : 3 Hrs****Max. Marks: 70****Note: Answer All questions, All Questions carry equal marks.**

- 1 a) Explain the importance of bioisosters and steric features that are specific for elicitation of bioactive response. 9M  
b) Write about protein binding of drugs its advantages and disadvantages. 5M  
**OR**
- 2 a) Discuss in detail conjugation reactions involved in drug Metabolism. 6M  
b) Define and give the significance of Ionization and partition coefficient. 8M
- 3 a) What are cholinergic drugs. Write the MOA and SAR. 8M  
b) Give the structure and synthesis of following :  
1) Carbachol 2) Dicyclomine HCl 2x3=6M  
**OR**
- 4 Add a note on following:  
a) Adrenergic blocking agents 7M  
b) Neuromuscular blocking agents. 7M
- 5 a) What are antiarrhythmic agents. Classify them with examples. Discuss the mode of action & SAR. 2+2+2+3M  
b) Write the synthesis and uses of captopril. 5M  
**OR**
- 6 a) Define and classify antihyperlipidemic agents with examples and SAR of statins. 7M  
b) Add a note on Vasodilators. 7M
- 7 a) Write short note on Immuno modulators. 6M  
b) Give the synthesis and uses of Amiloride and Amrinone. 4+4M  
**OR**
- 8 a) Write the structure, synthesis and uses of following drugs. 3.5x4=14M  
1) Propyl thiuracil  
2) Acetazolamide  
3) Azathioprine  
4) Lyclazide
- 9 a) Write a note on proton pump Inhibitors. 6M  
b) Give the structure, synthesis, uses and MOA of omeprazole and cimetidine. 4+4M  
**OR**
- 10 a) Add a note on coagulants and anticoagulants. 6M  
b) Write the synthesis, MOA and uses of Diphenhydramine and warfarin. 8M

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