

No. of Printed Pages : 03

Roll No.

DD-295

M. Sc. EXAMINATION, May 2018

(Fourth Semester)

(Main & Re-appear)

(CHEMISTRY)

CH654B

ORGANIC CHEMISTRY ELECTIVE-II

(Medicinal Chemistry)

Time : 3 Hours]

[*Maximum Marks : 100*

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : The question paper comprises of eight questions, two from each unit. The candidates will be required to attempt *Five* questions in all, selecting at least *one* question from each Unit.

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P.T.O.

Unit I

1. (a) Explain the following terms : **10**
 - (i) Hansch equation
 - (ii) Structure activity relationship (SAR).
- (b) Discuss the Craig plot and comments on its importance. **10**
2. (a) What are Drug Receptors ? Discuss the interaction of drug receptors and adverse drug effects. **14**
- (b) Describe the factors involved in drug design. **6**

Unit II

3. Give classification of antimalarials drugs with suitable examples. **20**
4. (a) Explain Sulpha Drugs and give synthesis for sulphonamide example. **10**
- (b) What are antipyretic and antianalgesis drugs (at least *one* example each) ? **10**

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Unit III

5. (a) Explain the activation of carbonyl and carboxylic acid pro-drug with examples and also discuss their advantages and disadvantages. **14**
- (b) Discuss the Bio-precursor prodrugs. **6**
6. (a) Explain the utility of prodrugs by giving suitable examples. **10**
- (b) Give brief discussion on Carrier Linked pro-drugs. **10**

Unit IV

7. (a) Write short notes on the following : **10**
 - (i) EPR effect
 - (ii) Polyglycerols.
- (b) Define polymer therapeutics and explain polymer conjugates of therapeutically relevant proteins. **10**
8. Explain the importance of Drug Delivery System in detail. **20**

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