

No. of Printed Pages : 03

Roll No.

DD-295

M. Sc. EXAMINATION, Dec. 2018

(Fourth Semester)

(Re-appear Only)

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. Attempt *Five* questions in all, selecting *one* question from each Unit.

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P.T.O.

Unit I

1. Explain the following : **20**
 - (a) Rational approach for drug design
 - (b) Craig Plot and its salient features.
2. (a) What are factors affecting Bioactivity ? **10**
 - (b) Comment on the term Lead and discuss concept of Lead in drug discovery. **10**

Unit II

3. Explain any *two* in detail with their classification : **20**
 - (a) Anti-cancer
 - (b) Anti-malarial
 - (c) Sulpha drugs.
4. Discuss structure elucidation of Pencillin in detail. **20**

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Unit III

5. Differentiate between drug and prodrug. Give classification of Pro-drugs and discuss the following : **20**
 - (a) Carrier Linked Pro-drug
 - (b) Mutual Pro-drug.
6. (a) Explain the utility of prodrugs by giving suitable examples. **10**
 - (b) Discuss Bio-precursor prodrugs. **10**

Unit IV

7. Explain the use of the following polymer for controlled drug delivery system : **20**
 - (a) Poly (ethylene glycol)
 - (b) Poly(esters).
8. Give comments on EPR effect and discuss its utility in anticancer drug discovery. **20**

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