

**341517(41)**

**B. Pharmacy (Fifth Semester) Examination,  
Nov.-Dec. 2017**

**(New Scheme)**

**(Pharmacy Branch)**

**MEDICINAL CHEMISTRY-I**

*Time Allowed : Three hours*

*Maximum Marks : 70*

*Note : Attempt any five questions. Each question carries marks as directed.*

1. Explain various physico-chemical aspects of drug molecules for their biological action including optical and geometric parameters.

2. (a) Give a brief account on QSAR with detailed explanation of steric factor. 7
- (b) Elaborate Hansch analysis and its derivation. 7
3. Define and classify Adrenergic drugs. Write SAR of sympathomimetics and give synthesis of Naphazoline. 14

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4. (a) Write note on anticholinergic drugs with examples. 7
- (b) Write note on adrenergic blocking agents with examples. 7
5. (a) Describe antispasmodic drugs and its mechanism with examples. 7
- (b) Write note on transduction mechanism of drug receptor interaction. 7

6. Write mechanism of action (MOA) and synthesis of any two drugs : CSVTUonline.com  $2 \times 7 = 14$

- (i) Procaine
- (ii) Methacholine
- (iii) Chlorpheniramine

7. Write category and structure of any four :
- (i) Terbutaline
- (ii) Labetolol
- (iii) Doxylamine
- (iv) Celecoxib
- (v) Doxazocin
- (vi) Dimenhydrinate
- (vii) Cetrizine
- (viii) Cyproheptadine

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