

**B.Pharm 6th Semester Exam., 2018**

**PHARMACEUTICAL CHEMISTRY—VI**

Time : 3 hours

Full Marks : 70

**Instructions :**

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Answer any seven of the following :  $2 \times 7 = 14$

- (a) Define oxytocics.
- (b) Write the full form of NSAIDs.
- (c) Draw the structure of Aspirin.
- (d) D-tubocurarine is used as \_\_\_\_\_.  
( Fill in the blank )
- (e) Write any two antispasmodic drugs with structures.

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(f) Write any two antiulcer drugs with structures.

(g) Define Isomerism.

*Rawsharu*

(h) Draw the structure of atropine.

*ASPM*

(i) Write role of eicosanoids.

(ii) Write any two anticholinesterases drugs with structures.

2. Explain the physic-chemical aspects (optical, geometric and bioisosterism) of drug molecules. 14

3. Define and classify receptor. Explain g-protein coupled receptor in detail. 14

4. Write a note on lead compound with example. Explain traditional analog approach for drug design. 14

5. Give detailed classification and mode of action of adrenergic drug. Write SAR of norepinephrine. 14

- 6. Write the classification of cholinergic drug with structure. Give the synthesis of acetylcholine. 14
- 7. Classify of NSAIDs. Write synthesis, MOA and SAR of paracetamol. 14
- 8. Write in detail about neurochemistry and stereochemistry of histamines. Also write mast cell stabilizer and classify anti-histaminic drugs. 14
- 9. Classify uterine stimulants. Explain secretion and regulation of oxytocin. 14

*Steroidal \*\*\*  
Histamine ant static Analg.*

*Amphetamine*

