Sub Code: RPH521

Paper Id: 150501 Roll No:

**B. PHARM**
**(SEM V) THEORY EXAMINATION 2019-20**
**PHARMACEUTICAL CHEMISTRY-VI (MEDICINAL CHEMISTRY-I)**

*Time: 3 Hours* *Total Marks: 70*

**Note: 1.** Attempt all Sections.

**SECTION A**

**1. Attempt *all* questions in brief. 2 x 7 = 14**

a. Why drugs are designed mostly as weak acids and weak bases?
b. What are the symptoms of Parkinsonism?
c. Write the uses of alprazolam.
d. Write the mode of action of phenytoin.
e. Write the synthesis of valproic acid.
f. What are the uses of pilocarpine?
g. Write any two examples of optically active drug molecule.

**SECTION B**

**2. Attempt any *three* of the following: 7 x 3 = 21**

a. Write short notes on various physiochemical properties that affects biological activity of a drug molecules.
b. Classify anticholinesterases and discuss in brief about physostigmine.
c. Discussthe SAR of barbiturates.
d. Write synthesis, mode of action and uses of amphetamine and imipramine.
e. Discuss in detail about CNS stimulants and write the route of synthesis and mode of action of caffeine.

**SECTION C**

**3. Attempt any *one* part of the following: 7 x 1 = 7**

(a) What is bioisosterism? Discuss in brief about different types of bioisosteres.
(b) Write a short notes on atropine and adrenaline.

**4. Attempt any *one* part of the following: 7 x 1 = 7**

(a) Discuss in brief about relationship between structure and antidepressant properties of dibenzazepines.
(b) Write synthesis, mode of action and uses of succinylcholine and lignocaine.

**5. Attempt any *one* part of the following: 7 x 1 = 7**

(a) Classify drugs used in treatment of Parkinson's disease.
(b) Write a short note on pancuronium and pentazocine.

**6. Attempt any *one* part of the following: 7 x 1 = 7**

(a) Write the synthesis and uses of methacholine and salbutamol.
(b) Discuss in brief about relationship between structure and antipsychotic activity of phenothiazines.

**7. Attempt any *one* part of the following: 7 x 1 = 7**

(a) Write a short note on dextromethorphen and benzocaine.
(b) Classify anticonvulsants with suitable examples.

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