

Paper Id:

150501

Roll No:

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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. Discuss the 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.