

**B.PHARM**  
**(SEM-VI) THEORY EXAMINATION 2018-19**  
**PHARMACEUTICAL CHEMISTRY-VI (MEDICINAL CHEMISTRY-II)**

Time: 3 Hours

Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

## SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20
- a. Define the term 3D QSAR.
  - b. What is Free Wilson analysis?
  - c. Discuss the synthesis and uses of Clofibrate.
  - d. Differentiate stable and unstable Angina Pectoris.
  - e. What is Insulin?
  - f. Discuss the structure of Carbimazole.
  - g. Why aspirin gives positive FeCl<sub>3</sub> test?
  - h. Define the term "Coxibs".
  - i. Discuss the synthesis and uses of Ranitidine.
  - j. Explain the medicinal uses of Minoxidil.

## SECTION B

2. Attempt any *three* of the following: 10x3=30
- a. Explain various parameters come under QSAR studies.
  - b. Classify Anti-hyperlipidemics with their mode of action and give the synthesis of Lovaststins.
  - c. What are hypoglycemics? Explain the role of Sulfonylureas in Diabetes.
  - d. Write a detailed note on NSAIDs.
  - e. What do you mean byProton pump inhibitors? Discuss the mode of action and synthesis of Rabepazole.

## SECTION C

3. Attempt any *one* part of the following: 10x1=10
- a. What is drug design? Write a note on Molecular Descriptors.
  - b. Discuss a detailed account of Structure based drug design.
4. Attempt any *one* part of the following: 10x1=10
- a. What are Antiarrhythmic drugs? Classify with suitable examples. Discuss the synthesis and uses of Atenolol.
  - b. Describe Anti-hypertensives in detail.
5. Attempt any *one* part of the following: 10x1=10
- a. Discuss SAR of ACE inhibitors and Thiazide diuretics.
  - b. What are thyroid and antithyroids agents? Discuss their SAR with synthesis of Methimazole.
6. Attempt any *one* part of the following: 10x1=10
- a. Differentiate Analgesic and Antipyretics, Give their mechanism of action with synthesis of Diclofenac.
  - b. Describe Anticoagulants with the synthesis of Warfarin.
7. Attempt any *one* part of the following: 10x1=10
- a. What is Antihistaminic? Discuss the synthesis of Diphenhydramine and Chlorpheniramine.
  - b. Write a note on Cosmeceuticals.