Printed Pages: 01 **Sub Code: BOP361**

Paper Id: 150211 **Roll No.** | | | | | | | | | | |

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 $FeCl_3$ test?
h. Define the term "Coxibs".
i. Discuss the synthesis and uses of Ranitidine.
j. Explain the medicinal uses of Minoxidil.

ECTION 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.

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