Printed Pages: 01 **Sub Code: BP-202T**

Paper Id: 150296 **Roll No.** | | | | | | | | | | |

B PHARM
(SEM-II) THEORY EXAMINATION 2018-19
PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3 Hours ***Total Marks: 75***

Note: Attempt all Sections. If you require any missing data, choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a. Give IUPAC name for $(CH_3)_2C=CHC(C_2H_5)=CH_2$.

b. Give the structure and uses of Hexamine.

c. Give the structure and uses of Tartaric acid.

d. Why chloroacetic acid is more acidic than acetic acid?

e. Write the structure and uses of Methyl Salicylate.

f. Why aliphatic amines are more basic than aromatic amines?

g. Give the structure and uses of Amphetamine.

h. What is Saytzeff's rule?

i. What is the effect of base in E_2 reaction?

j. What is ozonolysis of alkene?

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a. What is isomerism? Explain structural isomerism with suitable examples.

b. Write reaction and mechanism of Aldol condensation and Benzoin condensation.

c. What are dienes? Explain 1, 2 and 1,4 addition mechanism in conjugated dienes with suitable examples

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a. Write a note on Markownikoff's orientation.

b. Write IUPAC nomenclature rules for the naming of carboxylic acids.

c. Write a detailed account of SN^1 and SN^2 reactions.

d. Give the chemical tests for alcohols. Give the structure and uses of glycerol.

e. Write a note on Cannizzaro reaction.

f. Write chemical tests for amines. Give the structure and uses of ethanolamine.

g. Write a note on: i) Perkin condensation reaction ii) Inductive effect