Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name : Pharmaceutical Organic Chemistry I - Theory
Subject Code : BP202T **Branch: B.Pharm**
Semester : 2 **Date : 23/10/2018** **Time : 02:30 To 05:30** **Marks : 75**

Instructions:
(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1 **Attempt the following questions:** **(20)**

a) Classify organic compounds.
b) Define Ozonolysis.
c) Write structure and uses of chloroform.
d) Give reaction for Aldol condensation.
e) Give Qualitative test for Acetone.
f) Write structure and uses of Acetic acid.
g) Give reaction for Perkin condensation.
h) Explain Halogenation of Alkanes.
i) Give the factors affecting E_1 and E_2 reaction.
j) Explain Diel- Alder reaction.

Attempt the following questions:

Q-2 **Attempt any two of following :** **(20)**

A Explain effect of substituent's on acidity of carboxylic acids .give qualitative tests for carboxylic acids and esters. **10**

B Give laboratory method of preparation of Aldehydes and ketones. Discuss their nucleophilic addition reaction. **10**

C Discuss S_N1 and S_N2 rections in Alkyl Halides and Steriocheistry involved. **10**

Q-3 **Attempt any Seven of following :** **(35)**

A Discuss IUPAC nomenclature in Aliphatic and Aromatic carboxylic acids. **5**
B Discuss Sp^3 and SP^2 Hybridization in alkanes and its impact. **5**
C Discuss Qualitative test, structure and uses of Ethyl alcohol and Methyl alcohol. **5**
D Explain Basicity of Aliphatic amines; give effect of substituent's on Basicity. **5**
E Discuss Electrophilic addition reaction of conjugated dienes. **5**
F Explain structural isomerism in organic compounds giving suitable examples. **5**
G Explain Markovnikov's and Anti-Markovnikov's orientation in alkenes. **5**
H Give laboratory method of preparation of alkanes and alkenes. **5**
I Give Qualitative test, structure and uses of Glycerol and Propylene Glycol. **5**