Enrollment No: _____ Exam Seat No: _____

C.U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name: Pharmaceutical Organic Chemistry II - Theory
Subject Code: BP301T **Branch: B.Pharm**
Semester: 3 **Date: 21/11/2022** **Time: 11:00 To 02:00** **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) What do you mean by Aromatic acid and give example. (2)
b) Write Huckel Rule. (2)
c) Give structure and uses of DDT and Saccharine. (2)
d) Write Diazo coupling reaction. (2)
e) Give Kolbe Schmitt reaction for Naphthoic acid. (2)
f) Write Liberamann Nitroso reaction (2)
g) Give physical property of Aromatic Acid. (2)
h) Define by giving example mono and dihydric phenol. (2)
i) Write uses of Napthalene. (2)
j) Discuss significance of Rm Value and Iodine Value. (2)

Attempt the following questions:

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

A Explain Bayer's Strain theory. **10**

B How will you prepare following from phenol: **10**

1. Benzene
2. Ortho cresol
3. Para nitro phenol
4. Phenyl Acetate
5. Para Nitroso Phenol

C What do you mean by Fat and Oil? Write explanatory note on analysis of them. **10**

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

A Write following **5**

1. Ionization of Aromatic Acid
2. Acidic nature of Aromatic Acid

B Explain physical property of Phenol. **5**
C Write a note on Ammonolysis with advantages. Disadvantages and mechanism. **5**
D Give the reaction of Hoffman degradation with mechanism **5**
E Discuss method of preparation of Aromatic Acid. **5**
F Write Kekule Structure of Benzene. **5**
G Enlist general property of Fat and Oil and differentiate hydrolysis, hydrogenolysis and hydrogenation. **5**
H Write a short note on triphenyl methane. **5**
I Give method of preparation of Cycloalkane. **5**