____ **C.U.SHAH UNIVERSITY** Winter Examination-2021

Subject Name: Pharmaceutical Organic Chemistry II - Theory

Subject Code: BP301T		Branch: B.Pharm	
Semester: 3	Date: 13/12/2021	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)	Explain β – oxidation of fat and oil.	2
	b)	Give example of drying, semi drying and nondrying oils.	2
	c)	Explain Basicity of Aromatic Amines	2
	d)	What do you mean by ionization of Aromatic Acids?	2
	e)	Write down Schotten Baumann Reaction.	2 2
	f)	Why Cyclopropane is least stable member then Cycloalkanes?	2
	g)	Draw Boat & Chair conformation of Cycloalkanes.	2
	h)	What is $2 + 2$ addition reaction of cyclo alkanes?	2
	i)	Out of Ortho & Para which isomer of Phenol have less Boiling point? Why?	2
	j)	Explain: Williamson Synthesis	2
Attem	pt the	following questions:	
Q-2		Attempt any two of following :	(20)
	Α	Write down Structure, Synthesis, Chemical Reactions, and Uses of Anthracene.	10
	B	Discuss Physical property & Special Reaction of Phenol.	10
	С	Explain Baeyer's Strain Theory.	10
Q-3		Attempt any Seven of following :	(35)
	Α	Write Physical property of phenol. How do you prove that phenol is acidic in nature? Explain.	5
	В	What do you mean by Ammonolysis? Synthesize 1°, 2° & 3° Aromatic Amines by Ammonolysis? Write disadvantages of this method.	5
	С	Explain following reaction: i) Anisole from Phenol ii) O- Cresol from aromatic amine derivatives	5
	D	Explain Coulson & Moffit's Theory with Proper Hybrid diagram.	5



Ε	RM value and Iodine value.	5
F	Explain Hoffman Degradation with Mechanism.	5
G	Structure & Uses of Cresol & Naphthols.	5
Н	What do you mean by Alkylation & Acylation? Explain with reference to	5
	Benzene with Reaction.	
Ι	How will you prepare Benzoic acid from: 1° Alcohol, Nitrile, Alkyl	5
	Benzene, Dicarboxylic Acid & 1° Amine? Write down reactions of each.	

