

Seat No.:-----

Enrolment No.:-----

**UKA TARSADIA UNIVERSITY**

Maliba Pharmacy College

B. Pharm 3<sup>rd</sup> Semester Internal Examination Nov 2012

030030203 Organic Chemistry-II

Time: 10:00 a.m. To 1:00 p.m.

Max. Marks: 70

Date: 5 /11/2012

**Instructions:**

- Question no. 1 is compulsory.
- From Q.2 to Q.7 attempt any **four** questions.
- Make suitable assumption whenever necessary.
- Figures to the right indicate full marks.

<b>Q.1</b>	(a)	Answer the following: (any six)	<b>06</b>
		1 Why formic is more acidic than acetic acid?	
		2 How will you convert cyclopentanol to cyclopentanone?	
		3 Why pyridine is more basic compared to pyrazole?	
		4 What is chemical content of Edman's reagent?	
		5 With suitable example show disrotatory motion.	
		6 Define anti-aromatic compound.	
		7 Give reagents used in Tollens test.	
		8 Write the structures for benzophenone, Toluic acid, p-xylene, p-cresol.	
	(b)	Describe in brief: (any four)	<b>08</b>
		1 Write Cannizzaro reaction.	
		2 Write Knorr and Paal-Knorr synthesis of pyrrole nucleus	
		3 Give conditions necessary for aromaticity.	
		4 Differentiate between $\alpha$ -helix and $\beta$ -pleated sheets.	
		5 Which is strong base methylamine or aniline? Why?	
		6 Write reaction for Michael addition	
<b>Q.2</b>	(a)	Explain electrophilic addition reaction of $\alpha$ , $\beta$ -unsaturated carbonyl compounds with suitable examples	<b>04</b>
	(b)	Write oxidation reactions given by aldehydes and ketones	<b>05</b>
	(c)	Write reactions given by pyridine.	<b>05</b>
<b>Q.3</b>	(a)	Write methods of preparation for quinoline	<b>04</b>
	(b)	Define and classify carbohydrates.	<b>05</b>
	(c)	Define pericyclic reaction and explain sigmatropic rearrangements.	<b>05</b>
<b>Q.4</b>	(a)	Write method for preparation of arenes.	<b>04</b>
	(b)	Explain with mechanism nucleophilic substitution in aryl halides.	<b>05</b>
	(c)	Write method for preparation of furan and thiophene.	<b>05</b>
<b>Q.5</b>	(a)	Write reaction of nitrous acid with primary, secondary, tertiary aliphatic and aromatic amines.	<b>04</b>
	(b)	Write method for preparation of carboxylic acids.	<b>05</b>
	(c)	Write methods for preparation of phenanthrene and naphthalene.	<b>05</b>
<b>Q.6</b>	(a)	Define and classify lipids.	<b>04</b>
	(b)	Write reactions given by phenols.	<b>05</b>
	(c)	Write method for preparation and reaction given pyrazine.	<b>05</b>
<b>Q.7</b>	(a)	Write method for preparation and reaction of styrenes.	<b>04</b>
	(b)	Give note on combinatorial chemistry.	<b>05</b>
	(c)	Write reactions given by imidazole and thiazole nucleus.	<b>05</b>