

Seat No.:-----

Enrolment No.:-----

UKA TARSADIA UNIVERSITY

Maliba Pharmacy College

B. Pharm 3rd 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.

Q.1	(a)	Answer the following: (any six)	06
		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)	08
		1 Write Cannizzaro reaction.	
		2 Write Knorr and Paal-Knorr synthesis of pyrrole nucleus	
		3 Give conditions necessary for aromaticity.	
		4 Differentiate between α -helix and β -pleated sheets.	
		5 Which is strong base methylamine or aniline? Why?	
		6 Write reaction for Michael addition	
Q.2	(a)	Explain electrophilic addition reaction of α , β -unsaturated carbonyl compounds with suitable examples	04
	(b)	Write oxidation reactions given by aldehydes and ketones	05
	(c)	Write reactions given by pyridine.	05
Q.3	(a)	Write methods of preparation for quinoline	04
	(b)	Define and classify carbohydrates.	05
	(c)	Define pericyclic reaction and explain sigmatropic rearrangements.	05
Q.4	(a)	Write method for preparation of arenes.	04
	(b)	Explain with mechanism nucleophilic substitution in aryl halides.	05
	(c)	Write method for preparation of furan and thiophene.	05
Q.5	(a)	Write reaction of nitrous acid with primary, secondary, tertiary aliphatic and aromatic amines.	04
	(b)	Write method for preparation of carboxylic acids.	05
	(c)	Write methods for preparation of phenanthrene and naphthalene.	05
Q.6	(a)	Define and classify lipids.	04
	(b)	Write reactions given by phenols.	05
	(c)	Write method for preparation and reaction given pyrazine.	05
Q.7	(a)	Write method for preparation and reaction of styrenes.	04
	(b)	Give note on combinatorial chemistry.	05
	(c)	Write reactions given by imidazole and thiazole nucleus.	05