

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name: Organic Chemistry - II

Subject Code: 4SC06CHC2

Branch: B.Sc. (Chemistry)

Semester: 6

Date: 27/04/2018

Time: 02:30 To 05:30

Marks: 70

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:	(14)
	a) Define: Reaction mechanism	1
	b) Define: Hydrocarbons	1
	c) Define: Energy of activation	1
	d) Define: Nucleophile and give its example.	1
	e) What is heat of Hydrogenation?	1
	f) Define: Free radical	1
	g) What is reaction mechanism?	1
	h) Give only reaction of addition of HCN in aldehydes.	1
	i) Give the structure of Benzyne.	1
	j) Define: Aromatic compound	1
	k) Draw the structure of Witting reagent.	1
	l) Calculate the value of 'n' in Anthracene.	1
	m) What is cyanohydrin?	1
	n) Define: Acetal	1

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
	a) Explain chlorination of methane and how to control this reaction?	7
	b) Explain acid and base promote halogenation of ketone with mechanism.	7
Q-3	Attempt all questions	(14)
	a) Discuss Cannizzaro reaction with mechanism and applications.	7
	b) Discuss the stability of Benzene ring and give the chemical reaction of benzene.	7
Q-4	Attempt all questions	(14)
	a) What is Friedel Crafts Acylation reaction? Explain the preparation of ketone by Friedel Crafts Acylation	7
	b) Explain preparation of aryl halide in detail.	7



