

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Organic Chemistry-II

Subject Code: 4SC04OCH1

Branch: B.Sc. (Chemistry, Physics)

Semester: 4

Date: 18/04/2019

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	01
	b) Draw the chemical structure of Alizarin.	01
	c) What is the use of Ibuprofen?	01
	d) What do you mean by rearrangement?	01
	e) Give any one example of hemlock alkaloid.	01
	f) Write the reaction to detect hydroxyl group in alkaloids.	01
	g) Write the general molecular formula of Diterpene.	01
	h) Draw the structure of isoprene unit.	01
	i) Give any one example of alkaloid containing pyridine - pyrrolidine group.	01
	j) Write one application of Fries rearrangement	01
	k) In which type of organic reaction allylic rearrangement is observed?	01
	l) Write any two physical properties of terpenoids.	01
	m) What is the use of Congo red?	01
	n) In alkaline medium alizarin gives _____ coloured solution.	01

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

Q-2	Attempt all questions	(14)
	a) Discuss Arndt-Eistert reaction with mechanism and its applications.	07
	b) Write a brief note on Hofmann rearrangement with mechanism and its applications.	07
Q-3	Attempt all questions	(14)
	a) Explain Curtius reaction with its mechanism and application.	07
	b) Explain Barbier-Wieland reaction with mechanism.	07
Q-4	Attempt all questions	(14)
	a) Write a brief note on Indigo dye.	07
	b) What are terpenoids? Discuss classification of terpenoids.	07



