Enrollment No:			Exam Seat No:

C.U.SHAH UNIVERSITY

Winter Examination-2022

Subject Name: Industrial Chemistry-I

Subject Code: 4SC04IDC1 Branch: B.Sc. (Chemistry)

Semester: 4 Date: 22/09/2022 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:			
	a)	Define Glass	01		
	b)	What are the primary nutrients?	01		
	c)	Which oxides give the blue coloration to the glass?	01		
	d)	Draw the chemical structure of Parathion.	01		
	e)	Give some refractory materials for ceramics.	01		
	f)	What color is produced when copper oxide is used to decorate ceramics?	01		
	g)	Give two examples of natural insecticides.	01		
	h)	Pure malathion has mg/L water solubility at 20 ^o C.	01		
	i)	Glass is a tough non-crystalline liquid substance. (True/False)	01		
	j)	A deficiency of causes leaves to turn white and growth to cease.	01		
	k)	Write some uses of dinitrophenols.	02		
	l)	Give a brief about the fertility of the soil.	02		
		Attempt any four questions from Q-2 to Q-8			
Q-2		Attempt all questions	(14)		
	a)	Discuss the Aldrin and Dieldrin insecticides.	07		
	b)	Write a note on the plants nutrients which are help to grow the plant.	07		
Q-3		Attempt all questions	(14)		
_	a)	Discuss the production of urea with process flow diagram.	07		
	b)	What is fertilizer? Write about the nitrogenous fertilizers.	07		
O-4		Attempt all questions	(14)		
	a)	Write a short note on DDT.	07		
	b)	Write in detail about the decoration for ceramic articles.	07		
Q-5		Attempt all questions	(14)		
~	a)	Discuss about the manufacturing process of glass.	07		
	b)	Discuss about the general properties of ceramic.	07		



Q-6	Attempt all questions	(14)
a)	Write the chemical reactions to prepare different glasses.	07
b)	Explain the production of ammonium nitrate with labeled diagram.	07
Q-7	Attempt all questions	(14)
a)	Write a brief note on inorganic and organic insecticides.	07
b)	Write a note on the classification of ceramic.	07
Q-8	Attempt all questions	(14)
a)	Write some uses of glasses and ceramics.	07
h)	Write a note on the classification of insecticides	07

