

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name: Industrial Chemistry-II

Subject Code: 4SC06CHE1

Branch: B.Sc.(Chemistry)

Semester: 6

Date: 17/05/2016

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 paints and pigments	01
	b) Define Varnish	01
	c) Draw the structure of Quinacridone	01
	d) Write the physical properties of white lead	01
	e) What is distempers?	01
	f) What is emulsion paints?	01
	g) Define plasticizers	01
	h) Give example of some chemical explosives.	01
	i) What is gel dog and aqua dog?	01
	j) Give example of pour depressant additives.	01
	k) What is compounded oil?	01
	l) What are different units for measuring viscosity?	01
	m) What is the chemical constitution of dynamite?	01
	n) What is oxygen balance in explosives?	01

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

Q-2	Attempt all questions	(14)
	A Give the classification of paints basis of application	05
	B Write a note on raw material of varnishes	05
	C Discuss the manufacturing of paints with proper diagram	04
Q-3	Attempt all questions	(14)
	A Write a note on types of varnish	05
	B Discuss the Vulcanization in detail	05
	C Define and discuss:	04
	1. Gutta Percha	
	2. Buna-S	



Q-4	Attempt all questions	(14)
A	Write a note on requirements of good paints	05
B	Define Lubricants. What are the main functions of lubricants?	05
C	Define the following: 1. GR-M rubber 2. Silicon rubber	04
Q-5	Attempt all questions	(14)
A	What are the extreme pressure lubricants?	05
B	Explain classification of lubricants.	05
C	What are the fundamental characteristics of explosives?	04
Q-6	Attempt all questions	(14)
A	Write a note on primary explosive.	07
B	What are the chemical properties of greases? Explain lubricating greases.	07
Q-7	Attempt all questions	(14)
A	Explain different properties of lubricants.	07
B	Explain the procedure for measuring flash point of lubricant.	07
Q-8	Attempt all questions	(14)
A	Discuss the Dutch process with proper diagram	07
B	Discuss the refining of crude rubber	07

