

Enrollment No: _____

Exam Seat No.: _____

C.U.SHAH UNIVERSITY

Winter Examination-2022

Subject Name: Industrial Chemistry-III**Subject Code: 4SC06IDC1****Branch: B.Sc. (Chemistry)****Semester: 6****Date: 26/09/2022****Time: 11:00 To 02:00****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.
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Q-1	Attempt the following questions:	(14)
	a) Write any two examples of lubricant.	01
	b) What is the Flash point?	01
	c) What is viscosity index (VI)?	01
	d) What is cordite?	01
	e) Write the composition for gelatin dynamite.	01
	f) How to prepare RDX?	01
	g) Give some emulsifying agent for lubrication.	01
	h) Write some examples of composite liquid propellants.	01
	i) Which accelerators are used in rubber?	01
	j) Give any one organic paint.	01
	k) Give some physical properties of rubber.	02
	l) Write some chemical and fire resistant paints.	02

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

Q-2	Attempt all questions	(14)
	a. What is lubricant? Write its types and describe any one with examples.	07
	b. Write in detail about the properties of lubricants.	07
Q-3	Attempt all questions	(14)
	a. Write a note on any two tests carried out on lubricants.	07



b.	Discuss about the preparation of TNT, AN, PETN and Cyclonite.	07
Q-4	Attempt all questions	(14)
a.	Write in detail about the classification of explosives.	07
b.	Discuss about the characteristics of explosives.	07
Q-5	Attempt all questions	(14)
a.	Write a note on Neoprene and Buna-N rubbers.	07
b.	Write a note on vulcanization.	07
Q-6	Attempt all questions	(14)
a.	Discuss about the Gutta percha rubber.	07
b.	Write a note on paint.	07
Q-7	Attempt all questions	(14)
a.	Discuss about the manufacturing process of white lead pigment.	07
b.	Write in detail about the classification of paints.	07
Q-8	Attempt all questions	(14)
a.	Write some requirements for a good paint.	07
b.	Discuss about the applications of explosives.	07

