## 22408

3		_		Marks	Sea	ut No.								
	Instru	ctions –	(1)	All Question	ns are Con	npulso	ry.							
			(2)	Answer eac	h next ma	in Que	estic	on c	on a	ne ne	W	pag	e.	
			(3)	Illustrate yo necessary.	our answers	s with	nea	at sl	ketc	hes	wł	nere	ver	
			(4)	Figures to t	the right in	ndicate	ful	ll m	ark	s.				
			(5)	Assume sui	table data,	if nec	ess	ary.						
													Ma	rks
1.		Attempt	any	<u>FIVE</u> of th	ne followir	ıg:								10
	a)	Define (	Organ	ization.										
	b)	Give the	cau	ses of hazard	ds in indu	stry.								
	c)	Name ar	ny fo	ur important	chapters	under ]	Fact	tory	Ac	t 19	948	-		
	d)	List any	two	accidents in	vestigation	agenc	eies.	(ar	ny 2	2)				
	e)	List out	diffe	rent hazards	in Insecti	cide in	dus	try.						
	f)	Give the	type	es of mainter	nance.									
	g)	Define s	afety	planning wi	ith their p	urpose.								
2.		Attempt	any	THREE of	the follow	wing:								12
	a)	Describe industry.	the	safety policy	compone	nts for	the	e cł	nem	ical				
	b)	Describe	the	safety audit	procedure	for ch	nem	ical	ind	lustı	ſy.			
	c)	Explain	the p	process of ac	cident inv	estigati	on	in (	deta	ils.				
	d)			pling technic tical industry	_	kic and	l fla	amn	nabl	e g	ases	S		

3.		Attempt any <u>THREE</u> of the following:	12
	a)	Describe Failure Mode Effect Analysis (FMEA) method.	
	b)	Explain corrective or Breakdown maintenance and Scheduled maintenance.	
	c)	Explain Bhopal Gas tragedy in detail.	
	d)	Give the standard classification of accident.	
4.		Attempt any THREE of the following:	12
	a)	Give the objectives of strategic planning.	
	b)	Explain Managerial Oversight Review Technique (MORT) method.	
	c)	Describe safety measures for fertilizer industry.	
	d)	Differentiate between preventive and predictive maintenance for any chemical plant.	
	e)	Compare Qualitative and Quantitative risk analysis methods.	
5.		Attempt any TWO of the following:	12
	a)	Explain policy formulation and implementation of safety plan.	
	b)	Prepare Accident report and explain elements of report.	
	c)	Describe precautions and prevention methods of hazard in chemical process plants.	
6.		Attempt any TWO of the following.	12
	a)	Explain HAZOP (Hazard and Operatibility Study) for any one process or operation of chemical industry.	
	b)	Describe shut down and start up procedure for a any chemical industry.	

c) Describe the online maintenance procedure for stream trap in chemical industry.

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