Total No. of Questions : 6]	SEAT No.:
D1 <i>511</i>	[Total No. of Pages : 2

BE/Insem/APR-238

B.E. (Chemical Engineering)

CHEMICAL PROCESS SAFETY (Elective - III)

(2015 Pattern) (Semester - II)				
Tim	e : 1	Hour] [Max. Marks : .	30	
Instr	uctio	ons to the candidates :		
	1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.		
	<i>2)</i>	Neat diagram must be drawn wherever necessary.		
	3)	Figures to the right indicate full marks.		
	<i>4)</i>	Use of Calculator is allowed.		
	5)	Assume suitable data, if necessary.		
Q 1)	a)	Explain the ingredients of successful safety programs.	5]	
	b)	Explain Fatal accidents rate. A process has a reported FAR of 2. If employee works a standard 8-hr shift 300 days per year, compute t deaths per person per year. OR		
Q2)	a)	What are the professional ethics concerning safety of society? Explain briefly.	in 5]	
	b)	How toxicants are Eliminated from Biological Organisms? Explain detail.	in [5]	
Q3)	a)	Explain government regulations pertaining to safety. [5]	
	b)	Outline the process for evaluating worker's exposure to noise.	5]	
		OR		
Q4)	a)	Explain OSHA process safety management process. [5]	
	b)	Outline the OSHA process safety management process.	5]	

Qs)	a)	Explain briefly:	[5]
		i) auto-ignition temperature	
		ii) Fire point	
		iii) Flammability limits	
		iv) Mechanical explosion	
		v) Deflagration	
	b)	Explain measures to prevent fires and explosions.	[5]
		OR	
Q6)	a)	Explain limiting oxygen concentration and inerting.	[5]
	b)	Explain flammability characteristics of liquids.	[5]

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