B.Tech. SEM -VII (Chemical 2014 Course (CBCS) : SUMMER - 2019 SUBJECT: PLANT UTILITIES AND PROCESS SAFETY

Day: Date:	Mono 13/05/2	•	S-2019-2787		Time: 02.30 PM TO 05.30 P Max Marks. 60	
N.B. :	1) 2) 3) 4) 5)	Figures to t Assume sui Use of non-	ns are COMPURSO he right indicate FU table data, if necessa programmable calcu	LL marks. ary. ulator is ALLOWI		
Q.1			of liquid phase and vehemical industries?		ransfer fluid systems are of the systems.	(10)
Q.1		Inlist the confect in detail		hat affects quality	y of water. Explain their	(10)
Q.2	E	xplain differ	ent types, selection	and sizing of boile	rs.	(10)
		OR				
Q.2	F	numerate ste	eam generation, distr	ibution and utiliza	tion in chemical plants.	(10)
Q.3	E		e following: lection of refrigeran aterial handling unde			(10)
				OR		
Q.3		tate the wor articular app		ejector. How a jet	ejector is selected for a	(10)
Q.4	Γ	oiscuss HAZ	OP and HAZAN for	identification and OR	assessment of hazards.	(10)
Q.4			concept of safety to achieve SIL in pr		(SIL). Explain different	(10)
Q.5	II	i) Ac ii) Br	isk and hazards for fetonitrile omine nylene oxide	following chemical	ls:	(10)
				OR		
Q.5		laborate the esign.	identification and a	ssessment of safet	ty parameters in process	(10)
Q.6			he inherently safer ess industry.	designs for elim	mination of hazards in	(10)
		OR				
Q.6		ecommend in itable exam	•	d design for runa	away reactions by using	(10)