B.TECH SEM - V (2007 COURSE) (CHEMICAL ENGG.) : SUMMER - 2018

SUBJECT: CHEMICAL TECHNOLOGY

Day Date	:	Saturday 26/05/2018	S-2018-2653	Time : Max. Max. Max. Max. Max. Max. Max. Max.	10.00 AM TO 01.00 P arks: 80.	M
N.B.	 Q. No. 1 and Q. No. 5 are COMPULSORY. Out of the remaining attempt any TWO questions from Section-I and TWO questions from Section-II. Both the sections should be written in SEPARATE answer books. Figures to the RIGHT indicate full marks. Assume suitable data, if necessary. 					
			SECTION-	Į.		
Q.1	Wr	ite short notes on:	:			
	a)b)c)	•	and Unit process Chlor-alkali industries oric acid			
Q.2	a) Justify the merits of Dual process over solvay process.b) Compare diaphragm cell v/s mercury cell.					(07)
						(06)
Q.3	a)	a) Give at least 6 examples of unit processes.				(07)
	b) What is the significance of Process Flow Diagram in CPI.					(06)
Q.4	a) List the different processes for the manufacture of NH ₃ and give their conditions.				d give their operating	(07)
	b)	Draw the neat fr	om diagram for the manufa	cture of nitric	acid.	(06)
			SECTION-I	I		
Q.5	Wr	ite short notes on:		(14)		
	a)b)c)	Pyrolysis	of Coal-Chemicals			
Q.6	Des	scribe the manufacturing process for phospheric acid with a neat flow diagrar				(13)
Q.7	a)	Describe the typ	es of carbonization of coal	in detail.		(07)
	b) How Coke-Oven chemicals are produced in the industry.					(06)
Q.8	a)	Draw a neat sch	ematic of refinery operation	s and describe	in detail.	(07)
	b)	Explain the need	d of 'ETP' in a chemical pro	cess plant.		(06)

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