Q.P. Code:27013

			[Time: Three Hours]	[Marks:80]
			Please check whether you have got the right question paper.	
		N.B:	1) All questions are compulsory.	
			2) Draw neat labelled diagrams wherever necessary.	
Q.1	a)) Explain U-Tube manometer and its modification.		
	b)	Define mass transfer. Elaborate on mass transfer in Laminar flow.		(3)
	c)	Define cryst	al form with example.	(2)
	d)	Classify Evaporator.		(2)
	e)			
	f)			£ 2 3 5 5 (3)
	g)	Give limitati	on of Mier's theory of Supersaturation.	(2)
	h)	Elaborate bu	ucket traps as an evaporator accessory.	(3)
Q.2	a)	Classify Pum	np. Explain any one reciprocating pump in detail.	(4)
			struction and working of Swenson Walker Crystallizer.	(4)
	~)			(-)
		Explain design and working of Oslo Crystallizer.		
	c)	_	trifugal molecular distillation still.	(4)
Q.3	a)	Classify flow	meter. Elaborate orifice meter in detail.	(4)
	,			(-)
		Give the prin	nciple of variable area flow meter and explain Rotameter.	
	b)	_	struction and working of Horizontal tube evaporator.	(4)
	c)		geration. Write in detail on refrigeration equipment.	(4)
	-,			(-)
Q.4	a)	What is fluid	l dynamics? Write a note on Reynolds number	(4)
	-		duction and discuss Stefan Boltzmann Law.	(4)
	,	20	OR O	
		Enlist mode	of heat transfer and write a note on any one tubular heat exchanger	
	c)		eation step in crystallization.	(4)
Q.5	a)	Describe pri	nciple construction and working of centrifugal pump.	(4)
	b)	Elaborate de	esign and working of steam distillation.	(4)
	9		OR OR	
	A C	Describe in	detail construction and working Bubble Cap Plate column.	
	c)	Discuss type	s of fire and its prevention.	(4)
Q.6	al	Enlist types	of conveyer and elaborate on Belt Conveyor.	(4)
			oration and explain factor influencing rate of evaporation.	(4)
	7.05		osion and discuss any two methods of prevention of corrosion.	(4)
	82	Digging	OR	
10	1 95 Y	שואכעs mec	hanism and types of corrosion.	
