## Q.P. Code :27012

	[Time: Three Hours]			[ Marks:80]	
		N.B:	Please check whether you have got the right question paper.  1) All questions are compulsory.  2) Draw neat labelled diagrams wherever necessary.		
Q.1	a)	a) Classify pressure measurement devices and explain any one in detail.		(3)	
	b)	Elaborate or	n the concept of interfacial mass transfer.	(3)	
	c)			(2)	
	d)	l) Enlist the various evaporator accessories.		(2)	
	e)			(2)	
	f)			(3)	
			rief crystal growth.	(2)	
	h)	What is dist	illation and explain the term HETP.	(3)	
Q.2	a)	What do you	u mean by pumps and write a note on centrifugal pumps.	(4)	
	b)	Discuss prin	nciple, construction and working of Krystal Crystallizer. <b>OR</b>	(4)	
		Discuss prin	nciple, construction and working of Agitated Batch Crystallizer.		
	c)		etails Falling Film molecular distillation still.	(4)	
Q.3	a)	Discuss in d	etails Venturimeter <b>OR</b> Pitot tube.	(4)	
	b)	Classify Eva	porators and write a note on vapour recompression.	(4)	
	c)	State the ap	plication of Refrigeration. Explain in detail of Refrigeration Equipment		
Q.4	a)	Explain in d	etails the experiment to study flow of fluids.	(4)	
	b)	Enlist mode	es of heat transfer and write a note on tubular heat exchangers.  OR	(4)	
		What is con	duction and discuss Stefan – Boltzmann law.		
	c)	Discuss in d	etail Mier's theory of Supersaturation.	(4)	
Q.5	a)	What are po	ositive displacement pumps and explain any one in details.	(4)	
	b)	Describe in	details construction and working of Bubble Cap Plate columns.  OR	(4)	
		Discuss in d	etail Azeotropic distillation.		
	c)	Write a note	e on fire extinguishers used in Industry.	(4)	
Q.6	a)	Classify con	veyor system and discuss pneumatic conveyors in detail.	(4)	
	b)	Write a note	e on short tube vertical Evaporator.	(4)	
	c)	Define corro	osion and discuss any two methods of combating corrosion.  OR	(4)	
		Diceues in d	atail the factors influencing corresion		

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