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QP Code: BR-1944

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	HO	431

[Total Marks : 70

N.B. (1)	All	questions	are	compulsory.
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		(2) Begin new question on a new page.	
1.	(a)	Write a note on Bourdon gauge.	3
	(b)	Describe mass transfer in turbulent flow.	3
	(c)	Enlist the factors affecting caking of crystals.	2
	(d)	Explain scale formation.	2
	(e)	Explain boiling point diagram of an ideal binary system.	2
	(1)	Discuss in brief about thermosetting plastics.	3
2.	(a)	Classify pumps. Write a note on Rotary pumps.	4
		Explain construction and working of Swenson Walker crystallizer.	4
		Explain distillation of immiscible liquids.	3
3.	(a)	Differentiate between Orifice and Venturimeter.	4
	(b)	Explain condensers as evaporator accessories.	3
**	(c)	Discuss the components of an absorption type of refrigeration system.	4
4.	(a)	What is Reynolds experiment? Give the significance of Reynolds number.	4
	(b)	List the types of heat exchangers and write a note on any one tubular heat exchanger. OR	4
7	(b)	What are the different modes of heat transfer? Write briefly on heat transfer	4
		through solids.	_
	(c)	Discuss in brief Crystal Form and Crystal Habit.	3
5,	(a)	Discuss the working of centrifugal pumps.	3
	(b)	Explain packed columns along with various packings. OR	4
	(b)	Write in detail on construction and working of fractional distillation column.	4
	(c)	Describe in detail fire bazards and the methods for prevention of fire hazards.	4
6.	(a)	What are conveyers? Write a note on working of pneumatic conveyers.	3
	(b)	Classify evaporators. Explain horizontal tube evaporator.	4
	(c)	Define corrosion. Mention in detail any two factors affecting rate of corrosion.	4
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	(c)	Enlist methods of combating corrosion. Explain in brief sacrificial anode method	4
		to combat corresion.	