Semester-VI, B.Sc. (Industrial Chemistry) Examination

October / November -2015 Paper- IC-601: Fundamental Chemical Engineering - II Paper Code: 4649

Time: 2.30 Hours			Total Marks: 70	
Que.1	(A) (B)	Explain types of fluid with example. Explain Reynold Number with example. OR	10 04	
Que.1	(A) (B)	State law of conservation of mass and explain Continuity equation.	10 04	
Que.2	(A) (B)	Draw schematic sketch of Boll man extractor & explain its working Give application of Centrifuge pump. OR	. 10 04	
Que.2	(A) (B)	Explain mass transfer phenomena during leaching What is mass transfer? State the formula to explain rate of mas transfer for leaching.	10 04	
Que.3	(A) (B)	Describe single acting – single cylinder Reciprocating Pump' principle, construction and working system. Classify Reciprocating pump.	s 10	
Que.3	(A) (B)	OR Write a short note on Toothed – roll Crusher with sketch. Draw only figure of Vane Axial Fan.	10 04	
Que.4	(A) (B)	Write a short note on Tube axial fan with sketch. Discuss mechanism of size reduction. OR	10 04	
Que.4	(A) (B)	Write a note on Steam Jet Ejector. Draw only figure of Gyratory Crusher.	10 04	
Que.5	(A) (B)	Write a note on Finned Tube Heat Exchanger. State the component of Fan. OR	10 04	
Que.5	(A) (B)	What is heat transfer? Explain Fourier's law of conduction? What is LMTD? Explain it.	10 04	