Semester-III, M.Sc. (Industrial Chemistry) Examination November - 2014

Paper- IC- 11: Unit operations & Unit processes – II Subject Code: 3568

Time: 2.30 Hours		T	Total Marks: 70	
Que1	Write a note on any two.		14	
	(1) Filter press	(3) Drum dryer		
	(2) Centrifuge	(4) Spray column		
Que2	Write a note on any two.		14	
	(1) Filter medium	(3) Rotating disc extractor		
	(2) Filter aid	(4) Spray column extractor		
Que3	What is nitrating mixture and nitronium ion? Briefly explain mechanism of nitration with example.		14	
		OR		
Que3	What is oxidation and oxidative formaldehyde from methanol with flo	e reaction? Give manufacture of ow sheet diagram.	14	
Que4	Differentiate reduction and aminati xylidine from nitroxylene by reduction	• • • • • • • • • • • • • • • • • • •	14	
Que4	What is esterification? How industria is manufactured?		14	
Que5	What is unit operation? Give detail account of Mixing unit operation with equipments.		14	
		OR		
Que5	Give the nature and characteristics of conveyors with different examples.	of bulk solids. Give brief account on	14	