S.Y. B.Sc. (Industrial Chemistry) Examination April - 2016

Paper- IC-202: Fundamentals of chemical engineering & analytical chemistry Paper Code: 8394

Time: 2.00 Hours		Hours Maximum Ma	Maximum Marks: 75	
Que.1	1 2 3 4	out the % of C, H and O in following. (any three) Benzoic acid Acetone Styrene Formaldehyde Ethylene oxide	[18]	
Que.2	(A) (B)	What is distillation? Explain simple distillation in detail. NaCl weighting 600 kg is mixed with 200 kg KCl. Find the composition of mixture in (I) weight % and (II) mole %.	[10]	
Que.2	(A) (B)	OR Discuss industrial production of oxalic acid. Write short note on DMF and THF.	[09] [10] [09]	
Que.3	(A) (B)	Give industrial production of Na ₂ CO ₃ with flow sheet diagram. Find out equivalent weight of Na ₂ CO ₃ , FeCl ₃ and KCl. OR	[10] [09]	
Que.3	(A) (B)	What do you mean by Fisher Tropsch synthesis? Explain it in detail. Give application of tetrazolium blue, sodium ethoxide and potassium chloride.	[10] [09]	
Que.4	(A) (B)	Write a note on formic acid production. How synthetic glycrol is manufactured? OR	[10] [09]	
Que.4	(A) (B)	Write a note on chlorination of methane. Give application of Karl – fisher reagent and Fehling A & B solution.	[10] [09]	