Seat	No.		

B.Sc. Sem. – III (Industrial Chemistry) Examination

Paper – ICHCC – 304: Fine and Heavy Chemicals - I Paper Code: 20684

Time: 2.30 Hours		Maximum Marks: 70	
Que.1	 Write short note on any two of following. 1. Acid-base catalysis 2. Positive catalysis 3. Promoters 4. Characteristics of catalysis 	[14]	
Que.2	Write short note on any two of following. 1. Ni-H 2. V ₂ O ₅ 3. TiO ₂ 4. Pd	[14]	
Que.3	Give industrial production of any one with flow sheet dia explain its applications in various chemical industries. 1. H ₂ SO ₄ 2. NH ₃	agram and also [14]	
Que.4	Give industrial production of any one with flow sheet dia explain its applications in various chemical industries. 1. Bromine 2. Iodine	agram and also [14]	
Que.5	Write short note on any two of following.1. Anionic detergent2. Cationic detergent3. Toilet soap4. Metal soap	[14]	