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- 115U	anne	GUJARAT TECHENGERCHENGERCHECAL UNIVERSISER	er.com	
BE - SEMIESTER- V (New) EXAMINATION – WINTER 2019				
0			: 21/11/2019	
	•	Name: Technology of Intermediate & Colorants	.l	
	e: 10 uction	:30 AM TO 01:00 PM Total Mar	'KS: /U	
msu				
		Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.	MADEC	
			MARKS	
Q.1	(a)	1	03	
	(b)		04	
	(c)	Explain the Process cooling/ Cooling water is used as an important utility used in chemical plants.	07	
Q.2	(a)	Write down the importance of DVS ratio in Nitration reaction.	03	
	(b)	Discuss Nitration in organic solvents.	04	
	(c)	· · · · ·	07	
		distillation.		
	(-)	OR	07	
Q.3	(c) (a)	•	07 03	
Q.3	(a) (b)	· •	03 04	
	(c)	-	07	
		OR		
Q.3	(a)	Write a note on: Filtration.	03	
	(b)	Discuss the effect of HNO ₂ (Nitrous acid) on Nitration.	04	
	(c)	Explain the Bechamp reduction reaction.	07	
Q.4	(a)	How do you classify the isomers?	03	
	(b)		04	
	(c)		07	
		(i) Anthraquinone (ii) 2-napthol OR		
Q.4	(a)		03	
2.1	(b)		03	
	(c)		07	
	(0)	(i) Phenol by Dow's process (ii) Napthol sulphonic acid	01	
Q.5	(a)		03	
	(b)	Discuss the concept of particle size reduction.	04	
	(c)		07	
	(-)	OR		
Q.5	(a)		03	
	(b)		04	
	(c)	-	07	