Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- IV(NEW) EXAMINATION - SUMMER 2015

Subject Code: 2142809		Code: 2142809 Date:03/06/2015	Date:03/06/2015	
Su	bject	Name: Chemistry of Intermediates & Dyes		
Time: 10:30am-1.00pm		0:30am-1.00pm Total Marks: 7	Total Marks: 70	
Ins	truction	as:		
	1.	Attempt all questions.		
	2.	Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.		
Q.1	(a)	Discuss any one Modern Theories of Colour and Constitution.	07	
	(b)	Explain Bathochromic and Hypsochromic Effects.	07	
Q.2	(a)	Differentiate Unit operations and Unit processes. Describe Nitration of	07	
		Napthalene and Anthraquinone.		
	(b)	Write note on Diazotisation Reaction.	07	
		OR		
	(b)	Give Destructive distillation of Coal	07	
Q.3		Discuss different methods of Reduction and show synthesis of different Intermediates from it.	14	
		OR		
Q.3	(a)	Write a note on Bucherer reaction and describe the synthesis of Amino -G acid and Amino- J acid using this reaction.	07	
	(b)	Give importance of Friedal-Craft's reaction. In which unit processes it is highly useful.	07	
Q.4		Discuss in detail Orientation rule in Benzene series OR	14	
Q.4	(a)	Write a note on Nomenclature of Dyes.	07	
•	(b)	What is Colour-Index? Explain the importance of color index.	07	
Q.5		Give Classification of Synthetic Dyes based on their application methods. OR	14	

Discuss in detail Non Textile uses of Dyes.

Q.5

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