Seat No.:	Enrolment No.
Seal NO.:	EHIOHIEH NO.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - WINTER 2013

Subject Code: 152801			Date: 27-11-2013	
Time: Instructi	10.30 ions: . Att	me: Chemistry of Intermediates and Dyes 0 am - 01.00 pm Total Mar tempt all questions. ake suitable assumptions wherever necessary.	ks: 70	
		gures to the right indicate full marks.		
Q.1	(a)	Enlist different unit processes. Explain Sulphonation Desulphonation unit processes.	and 07	
	(b)	Write a note on Color and its chemical constitution.	07	
Q.2	(a)	Enumerate different Reduction methods of Nitro compounds. Explain any two in detail		
	(b)	Describe Valence bond theory in detail OR	07	
	(b)	Discuss about Molecular orbital theory.	07	
Q.3	(a)	Give the synthesis of following Intermediates: (a) Schaffer acid(b) Sulphanilic acid.	07	
	(b)	What is Halogenation? Describe Chlorination in detail with exampl OR	es. 07	
Q.3	(a) (b)	Describe Dow and Cumene process in detail. What is Oxidation? Describe vapor phase oxidation in detail.	07 07	
Q.4		Write notes on: (a) Coal-tar distillation (b) Friedal- Craft's reaction.	14	
Q.4		OR Describe detail classification of dyes according to its applic methods.	ation 14	
Q.5		Write notes on ANY TWO: (a) Bucherer Reactions (b) Nomenclature of dyes (c) Non Textile uses of dyes (d) Armstrong's Theory of Colour	14	
