Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER • 2015

	Subject Code: 152801 Date: 02/05/20		15
Subject Name: Chemistry of Intermediates and Dyes Time: 02.30pm-05.00pm Total Mark			n.
		actions:	j
		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Describe fractional distillation of coal tar & show some primaries obtained at different temperature range.	07
	(b)	Write a note on "Orientation rules in Benzene series".	07
Q.2		Describe Witt's theory.	07
	(b)	Describe Valence bond theory in detail OR	07
	(b)	Write Non-Textile uses of Synthetic Dyes.	07
Q.3	(a)	Enlist different unit processes. Give all intermediates obtained from Sulphonation of Naphthalene.	07
	(b)	Discuss nitration of Benzene & Toluene. OR	07
Q.3	(a)	Describe different methods of Halogenation & show some intermediates obtained from it.	07
	(b)	Write a note on Bechamp & Sulphide reduction method.	07
Q.4		Write notes on: (a) Nomenclature of dyes (b) White dyes 	14
Q.4		OR Describe in detail classification of dyes according to its application.	14
Q.5	(a)	Give synthesis of Amino G-acid & Amino H- Acid through Bucherer reduction method.	10
	(b)	Give the structure of: (a) H-acid (b) NW-acid (c) Metanilic acid (d) Napthionic acid	04
~ -		OR	1.1
Q.5		Give in detail Synthesis of any Two Direct Dyes.	14
