Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- IV(NEW) EXAMINATION - SUMMER 2015

	•	Code: 2143604 Date: 01/06/2015	
Tir	•	Name: Chemistry of Intermediates and Colorants - II 0:30 am to 01:00 pm Total Marks: 70 ns:	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Define the term diazotization and give the mechanism of diazotization. Explain relation between color and chemical constitution by Wittz theory.	07 07
Q.2	(a) (b)	Define the term monoazo dyes and give the synthesis of Acid Orange I and Acid Red 29. Define the term optical brightener. Give the classification and characteristic	07 07
		properties of OB OR	
	(b)	Give the synthesis and mechanism of Direct Violet 51.	07
Q.3	(a) (b)	Give the synthesis of intermediate used in the preparation of Blankophor R Give the synthesis of Malachite Green and Rose-Aniline OR	07 07
Q.3	(a) (b)	Give the synthesis of Procion brilliant Red H-3B and Reactive Red 2B. Define the term azoic dyes. Give the synthesis of Naphthol AS and Fast Orange GGD base.	07 07
Q.4	(a) (b)	Give the synthesis of Anthraquinone Acid Blue 25 Give the classification of disperse dyes. Give the synthesis of Disperse Yellow 16 and Disperse Yellow 23.	07 07
Q.4	(a)	OR Explain various methods of synthesis of copper phthalocyanine and its	07
V. -	(b)	application in reactive dyes. Explain Bayer process for the synthesis of indigoid dyes.	07
Q.5	(a) (b)	Explain various methods of synthesis of Vat Blue IV. Give the synthesis of Astrazone Yellow 3G and Methylene blue. OR	07 07
Q.5	(a) (b)	Define the term reactive dye. Give classification of reactive dye. Give the synthesis of Auramine O and Aurammine G	07 07
