Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION - SUMMER 2015

	Subject Code: 143604 Date: 01/06/201: Subject Name: Chemistry of Intermediates and Colorants - II Time: 10.30am-01.00pm Total Marks: 7 Instructions:		
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	1. 2. 3.	J.	
Q.1	(a)	Give the synthesis of copper phthalocyanine dyes. Give example of reactive dye of copper phthalocyanine derivatives.	07
	(b)	Explain mordent theory of colour and chemical constituents.	07
Q.2	(a) (b)	Give the synthesis of Direct Orange 26 and Direct Red 31. Explain molecular orbital theory in detail.	07 07
		OR	
	(b)	Explain law of coupling with suitable examples.	07
Q.3	(a) (b)	Define the term diazotization? Discuss different methods of diazotization. Define the term reactive dye? Give the classification of reactive dye. Give the synthesis of Procion Brilliant Red H-3B.	07 07
		OR	
Q.3	(a)	Define the term disperse dye. Give the synthesis of Disperse Red I and Disperse Orange 13.	07
	(b)	Give the synthesis of Tinopal BV and 3-phenyl Coumarin.	07
Q.4	(a)	Give the synthesis of Malachite Green and Rose Aniline.	07
	(b)	Give the synthesis of Auramine O and Auramine G.	07
Q.4	(a)	OR Give the synthesis of Naphthol AS and Fast Orange GGD base.	07
V. -	(b)	Give the classification of dyes based on chromophores.	07
Q.5	(a) (b)	Give the synthesis of Caledone Jade Green with explanation. Explain Jablonksi diagram.	07 07
		OR	
Q.5	(a)(b)	Explain various methods for the synthesis of Indanthrone Blue. Explain different types of process for the synthesis of indigoid dyes.	07 07
