Seat No Elifolitett No.	Seat No.:	Enrolment No.
-------------------------	-----------	---------------

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Su	ubject Code: 2153608 Date:14/12		5
Instructions:		0:30am to 1:00pm Total Marks: 7	70
	1 2 3	. Make suitable assumptions wherever necessary.	
Q.1	(a)	Briefly explain properties of Sulfur dyes.	07
	(b)	Give synthesis of Indanthrene Golden Yellow and Indanthrene Khakhi GG.	07
Q.2	(a)	At what temperature diazotization is carried out? Briefly explain importance of temperature and acid mole ratio in diazotization process?	07
	(b)	Write a note on Direct and Indirect diazotization methods.	07
		OR	
	(b)	Write a brief note on Leather Dyes.	07
Q.3	(a)	Define FBA. Write down the properties of FBA. Give one synthesis of pyrazoline derivative of FBA.	07
	(b)	Give the synthesis of C. I. Fluorescent Brightner 51 and C. I. Fluorescent Brightner 162.	07
		OR	
Q.3	(a) (b)	Write a note on Coumarin based fluorescent brightening agent. Briefly explain Jablonski Diagram.	07 07
Q.4	(a)	Define Disperse dyes. Write down properties of disperse dyes. Give the synthesis	07
		of any two monoazo and bisazo disperse dyes.	
	(b)	Briefly explain Carrier dyeing method.	07
		OR	
Q.4	(a)	Write a brief note on Styryl & extended styryl disperse dyes.	07
	(b)	Briefly explain HT method of dyeing.	07
Q.5	(a)	Write a brief note on Bifunctional Reactive Dyes.	07
	(b)	Explain the chemistry of reactive dyes with special emphasis on environmental issue.	07
_		OR	
Q.5	(a)	Define Reactive dyes. Write down properties of Reactive dyes. Give the synthesis of C. I. Reactive Black 5.	07
	(b)	Briefly explain Pad-batch method of reactive dyes for application on fabrics.	07