Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – VI EXAMINATION – WINTER 2015

Subject Code:162801 **Date:15 /12/ 2015**

Subject Name: Technology of Dyeing -II

Time:2:30pm to 5:00pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Describe with neat sketch the principle, construction and working of fully flooded jet dyeing machine.	**07**
	(b)	Write a brief review on developments in padding mangle.	**07**
Q.2	**(a)**	Describe with technical details the complete processing of microfilament polyester.	**07**
	(b)	Describe with technical details the complete processing of CDPET fabrics.	**07**
		OR	
	(b)	Write a note on "Cationic Dyes".	**07**
Q.3	**(a)**	Describe with mechanism the dyeing of nylon with acid dyes.	**07**
	(b)	Write short note on metal complex dyes.	**07**
		OR	
Q.3	**(a)**	Describe the isothermal process of dyeing of acrylic fibre.	**07**
	(b)	Explain various causes of barriness in nylon dyeing.	**07**
Q.4	**(a)**	Give principle, construction & working of Standfast molten metal dyeing machine	**07**
	(b)	Give principle, construction & working of Longclose loose cotton dyeing machine.	**07**
		OR	
Q.4		Explain in detail various attempts made for making dyeable polypropylene.	**14**
Q.5	**(a)**	Write short notes on: Beam dyeing machine.	**07**
	(b)	Write Short Note on: Rapid dyeing of polyester	**07**
		OR	
Q.5	**(a)**	Write Short Note On: Dyeing of P/C blended fabric.	**07**
	(b)	Write Short Note on: Disperse dyes.	**07**

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