Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI • EXAMINATION – WINTER • 2014

Subject Code: 162805 **Date: 03-12-2014**

Subject Name: Technology of Finishing-I

Time: 02:30 pm - 05:00 pm **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)**	Discuss in detail the chemistry and application of reactive softeners.	**10**
	(b)	Discuss the chemistry and application of poly acrylamide.	**04**
Q.2	**(a)**	Explain in detail the delustering of viscose rayon.	**07**
	(b)	Describe the inherent qualities of cotton and linen fabrics in context to finishing.	**07**
		OR	
	(b)	Discuss the chemistry and applications of carboxy methyl and hydroxyl ethyl cellulose.	**07**
Q.3	**(a)**	Enumerate different F.R. theories	**04**
	(b)	Describe various flame retardant finishes given to cotton and polyester textiles.	**10**
		OR	
Q.3	**(a)**	Enlist various anti microbial finishes. Explain each in detail.	**14**
Q.4	**(a)**	Explain the Erick Kissa's mechanism of soil removal from the fabric.	**04**
	(b)	Give a brief account on various types of cationic softeners	**10**
		OR	
Q.4		Describe various soil resistant and soil release finishes.	**14**
Q.5	**(a)**	Write a short note on wax emulsion	**04**
	(b)	Explain in detail the chemistry and application of fillers and weighing agents.	**10**
		OR	
Q.5	**(a)**	Enlist various types of nonionic softeners. Explain any two in detail.	**07**
	(b)	Discuss in brief the chemistry and application of silicone softeners	**07**

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