Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI • EXAMINATION – SUMMER • 2014

Subject Code: 162805 **Date: 26-05-2014**

Subject Name: Technology of Finishing-I

Time: 10:30 am - 01:00 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)**	Answer the following **objective** questions.	**10**
	i.	Complete this sentence "A good cloth always ----------".	
	ii.	---------- fibre has high resiliency.	
	iii.	A roasted starch is known as ----------.	
	iv.	Give reason: Fumaric acid is not suitable for anticrease finishing of cotton.	
	v.	Define: Ignition.	
	vi.	----------group on amino plasts cross linking agents is responsible for chlorine retention.	
	vii.	State one example of reactive softener.	
	viii.	What are soluble starches?	
	ix.	Antipilling finish is generally employed to----------fiber.	
	x.	What is function of French chalk in textiles finishing.	
	(b)	State different F.R. Theories.	**04**
Q.2	**(a)**	Describe the inherent qualities of viscose rayon and synthetic fibres in context to finishing.	**07**
	(b)	What is difference between anticrease finishing and wash- n- wear finishing? Describe the chemistry with salient features of any four amino plasts based cross linking agents.	**07**
		OR	
	(b)	Describe various processes of wash-n-wear and D.P. finishing.	**07**
Q.3	**(a)**	Write a short note on LOI.	**04**
	(b)	Describe various techno-chemical aspects of perchmentization.	**10**
		OR	
Q.3	**(a)**	Give a critical review on formaldehyde free cross linking agents.	**14**
Q.4	**(a)**	Explain in detail the chemistry and applications of anionic softeners	**10**
	(b)	Enumerate the ways and extents of flame propagation by different fibres.	**04**
		OR	
Q.4		Describe Trubenizing, Bonding and Laminating	**14**
Q.5	**(a)**	Enlist various stiffening agents. Explain the chemistry, properties and application of any two stiffeners.	**10**
	(b)	Describe in brief "Antistatic finish"	**04**
		OR	
Q.5		Differentiate the terms "Water proof" and "Water repellant". Enlist different water repelling agents and explain **any two** in detail.	**14**

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