GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION - WINTER 2013

•		Code: 132803 Date: 30-11-2013	
Subj	ect N	Name: Scouring and Bleaching - I	
		.30 pm - 05.00 pm Total Marks: 70	
Instru			
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)	Answer the following OBJECTIVE questions:	07
	i.	Define 'volume strength' of hydrogen peroxide.	
	ii.	What is the function of buffer tank in kier?	
	iii.	·	
	iv.		
	v.	•	
	vi.		
	(b)	De-esterification of oil is known as Discuss the bleaching of cotton fabric with Hydrogen Peroxide.	07
Q.2	(a)		07
	(L)	of singeing.	07
	(b)	Enlist various merits and demerits of chemicking and peroxide bleaching. OR	07
	(b)	Discuss about slack and tight rope washing machines with neat sketch.	07
Q.3	(a)		07
	(b)	active agents in scouring process. Discuss various technical aspects involved with scouring of coloured woven	07
	(0)	goods.	U/
		OR	
Q.3	(a)	Describe with neat diagram the working of any one continuous bleaching	10
		range suitable for open width fabric.	
	(b)	Write a note on solvent scouring of textiles.	04
Q.4	(a)	What are enzymes? Explain their role in desizing process with mechanism	07
	()	involved.	
	(b)	Discuss the detailed inspection of grey goods. Also show the remedies for	07
		the faults if found in it.	
		OR	
Q.4	(a)	State the detailed description of shearing and cropping process.	07
	(b)	Write in brief on natural impurities present in cotton fibres with their composition.	07
		•	
Q.5	(a)	1	10
		with precautionary measures involved. Also give the mechanism involved.	0.4
	(b)	Enlist various advantages and limitations of J-Box. OR	04
Q.5	(a)	Discuss in detail the mechanism and application of physical bleaching	07
Ų.S	(a)	agents.	37
	(b)	Write a detailed note on Kiering	07
