GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V • EXAMINATION – WINTER 2013

Subject Code: 152802 Da		de: 152802 Date: 29-11-2013	te: 29-11-2013	
Subj	ect Na	me: Technology of Dyeing - I		
Time: 10.30 am - 01.00 pm Total Mark)	
Instru				
		tempt all questions. ake suitable assumptions wherever necessary.		
		gures to the right indicate full marks.		
Q.1	-	Explain Continuous and semi continuous dyeing methods of Reactive dyes.	10	
Q.1	(b)	Classify the reactive dyes on their reactivity and substantivity.	04	
Q.2	· · /	Describe in detail dyeing of cotton with Direct dye.	07	
L	(b)	Explain in detail factors affecting dyeing of cotton with direct dye.	07	
		OR		
	(b)	Why direct dyed materials are after treated? Enlist different after	07	
		treatments. Explain any two in details.		
Q.3	(a)	1 11 2	10	
		chemistry and technical aspects.		
	(b)	Describe classification of vat dyes.	04	
		OR		
Q.3		Discuss, elaborate the chemistry, properties and application of Indigosol	14	
		dyes to cotton fabrics, with advantages and disadvantages.		
Q.4		With all technical details discuss different steps in the developments of azoic	14	
		colours on cotton. OR		
Q.4		Discuss properties and application methods of sulphur dyes on cotton.	14	
Q.5		Write a short note on any TWO:	14	
Q.5	(a)	Fast salts	14	
	(b)	Vinyl sulphone reactive dyes		
	(c)	Mineral colours		

(d) Aniline black colours
