Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION - SUMMER • 2014

Sub	ject	Code: 132904 Date: 28-05-2014	
Sub	ject	Name: Textile Processing - I	
Tim	e: 02	2.30 pm - 05.00 pm Total Marks: 70	
	uction	1	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1		Discuss in detail the process of gas singeing and enzymatic desizing with principle, significance and necessary sketches.	14
Q.2	(a) (b)	Justify the suitability of pressure kier boiling process in pretreatment of cotton fabrics. Describe the process of peroxide bleaching of cotton fabrics. OR	07 07
	(b)	Give comparison of peroxide and hypochlorite bleaching.	07
Q.3	(a) (b)	With objects and principle of mercerization, discuss chainless pad less mercerizer. Describe the process of dyeing cotton fabrics with direct dyes. OR	07 07
Q.3	(a) (b)	Describe working of yarn dyeing machine with neat sketch. Justify the position of Jigger machines in textile wet processing.	07 07
Q.4	(a)	Explain the process of vat dyeing of cotton fabrics by exhaust method with the chemical reactions involved.	07
	(b)	Differentiate between hot brand and cold brand reactive dyes. Describe the process of dyeing cotton fabrics with cold brand reactive dyes. OR	07
Q.4	(a) (b)	Explain the terms: % wet pick up, % shade and M: L R Give the classification of coloring matter. Give table showing dyes suitable for various fibers.	07 07
Q.5		Describe the process of dyeing Polyester fabrics by carrier dyeing and HTHP dyeing methods.	14
		OR	
Q.5	(a) (b)	Write a note on Padding mangles. Describe the process of dyeing Polyester/ cotton blend by two bath method.	07 07
