

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III (NEW) EXAMINATION – WINTER 2017

Subject Code: 2132904

Date: 29/11/2017

Subject Name: Textile Processing - I

Time: 10:30 AM to 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.

			MARKS
Q.1*	(a)	Explain the terms: % wet pick up, % shade and M: L R	03
	(b)	Enlist various processes in wet processing of fabrics.	04
	(c)	Give the classification of colouring matter.	07
		Give table showing dyes suitable for various fibers.	
Q.2	(a)	What is Desizing and why it is necessary?	03
	(b)	Give the classification of Desizing methods	04
	(c)	Describe method of enzymatic desizing with its merits &demerits.	07
		OR	
	(c)	Discuss in detail the process of gas singeing	07
Q.3	(a)	Write objects of mercerization	03
	(b)	Name different machines used for Cotton Mercerising.	04
	(c)	With neat sketch, Explain the working of Chain Mercerising machine.	07
		OR	
Q.3	(a)	Explain the terms: Saponification &Emulsification	03
	(b)	In context to Scouring, Explain Detergency & Wetting	04
	(c)	With neat sketch, describe the process of scouring cotton fabric in pressure kier	07
Q.4	(a)	Classify vat dyes	03
	(b)	Explain its chemistry	04
	(c)	Describe its application methods	07
		OR	
Q.4	(a)	State principle of Dyeing machine	03
	(b)	Name any two Open width dyeing machine	04
	(c)	Explain the principle, construction and working of jigger dyeing machine	07
Q.5	(a)	Enlist various methods for singeing of fabrics	03
	(b)	Describe the process of peroxide bleaching of cotton fabrics	04
	(c)	Give comparison of peroxide and hypochlorite bleaching	07
		OR	
Q.5	(a)	What is meant by cold brand and hot brand reactive dyes.	03
	(b)	Describe the process of dyeing cotton fabrics with direct dyes	04
	(c)	Describe the process of dyeing Polyester/ cotton blend by Disperse+Reactive system	07