

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

~		BE - SEMESTER-III (NEW) EXAMINATION - SUMMER 2019	
Subje	ect C	Code: 2132904 Date: 18/06/201	19
Subj	ect N	Jame:Textile Processing - I	
Time	Time: 02:30 PM TO 05:00 PM Total Marks: 70		
Instru			
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	<b>3.</b> 1	Figures to the right indicate full marks.	
Q.1	(a)	Explain the following terms:	03
Ų.1	(a)	i. M.L.R ii. Shade percentage	03
	<b>(b)</b>	1 &	04
	(c)		07
	(-)	i. Scouring of colored Woven Goods ii. Exhausting Agents	
<b>Q.2</b>			03
	<b>(b)</b>		04
		i. Concentration and exhaustion of a dyeing bath.	
	(a)	ii. Cross dyeing and Topping  Untify the significance of Liber in securing of callulatin fibres and their blands.	07
	(c)	Justify the significance of J-box in scouring of cellulosic fibres and their blends with the help of proper sketch and process sequence and parameters.	U/
		OR	
	(c)	<b>V21</b>	07
	(0)	precautionary measures.	0.
Q.3	(a)		03
_	<b>(b)</b>	Provide meaning of following terms:	04
		i. Saponification ii. Surfactant iii. Mercerization iv. Emulsification	
	<b>(c)</b>	Write short notes on	<b>07</b>
		i. Shearing Process ii. Padding Mangle	
0.2	(0)	OR	02
Q.3	(a) (b)		03 04
	(c)	Define Dyeing. Classify the Coloring matter. Also write about different types of	07
	(C)	dyes used for different fibres.	07
		ight distalls.	
<b>Q.4</b>	(a)	Explain the objectives of desizing.	03
	<b>(b)</b>	Discuss the process of rot steeping desizing.	04
	<b>(c)</b>	Describe Stepwise dyeing of Disperse dyes.	<b>07</b>
		OR	
<b>Q.4</b>	(a)	Give the classification of dyes along with fiber types.	03
	<b>(b)</b>		04
	(c)	Discuss, with neat sketch and principle, Jigger Dyeing Machine with its positive	07
		and negative aspects.	
Q.5	(a)	What is stripping?	03
Q.5	(b)	** *	03
	(c)	Discuss Hydrogen Peroxide bleaching in relation to its recipe and process	07
	(=)	conditions.	٠.
		OR	
Q.5	(a)	Give the properties of vat dyes.	03
	<b>(b)</b>	1 , , ,	04
	<b>(c)</b>	Explain why desizing is necessary. Enlist various desizing processes. Describe	<b>07</b>
		the process of Acid desizing.	

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