Seat No.:	Enrolment No

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER-V EXAMINATION - WINTER 2015**

Su	ıbjec	t Code: 2152808 Date:14/12/2015	
Ti	-	t Name: Scouring & Bleaching-II  10:30am to 1:00pm  Total Marks: 70	
Ins	1 2	ons:  Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	Discuss the effect of caustic concentration and catalyst on weight reduction of polyester.	07
	<b>(b)</b>	Describe the effect of treatment temperature and time on caustic reduction of polyester.	07
Q.2	(a) (b)	Describe in detail the bleaching of nylon and acrylic.  Enumerate different methods of scouring of wool. Describe enzymatic and emulsion scouring method.	07 07
		OR	
	<b>(b)</b>	Describe hot mercerization in detail.	07
Q.3	(a)	Give a brief account of surface modification of polyester by amine treatment and explain the reactivity of amines.	07
	<b>(b)</b>	Write short note on BAN.	07
		OR	
Q.3		Describe chain mercerizing machine in detail with neat sketch.	14
Q.4	(a)	Discuss yarn mercerization in detail.	07
	<b>(b)</b>	Write short note on caustic recovery.	07
		OR	
Q.4		Give critical review on recent development of preparatory processing machineries.	14
Q.5	(a)	Discuss effect of different alkalis on mercerization with neat chart.	07
	<b>(b)</b>	Discuss various factors affecting the luster of mercerized cotton in detail.	07
Q.5		OR  Describe chainless – padless fabric mercerizing machine in detail with neat sketch.	14

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