Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI • EXAMINATION – SUMMER 2013

Subject Code: 162903 Date: 28- Subject Name: Physical Testing		5-2013	
•	: 10.	30 am - 01.00 pm Total Marks	: 70
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain with a neat diagram the water spray test for fabrics. Explain with a neat diagram the Uster Eveness Tester.	07 07
Q.2	(a) (b)	Explain with a neat diagram the Martindale Abrasion Tester.  Explain fibre length measurement using Baer Sorter.  OR	07 07
	(b)	Explain measurement of Moisture Regain using Shirley Moisture meter.	07
Q.3	(a) (b)	Explain the principle and working of lea strength tester. Explain in detail the Shirley Trash Analyser.  OR	07 07
Q.3	(a) (b)	Explain in detail the Zoning Technique for raw cotton.  Explain the measurement of yarn count using Knowles Balance.	07 07
Q.4	(a)	Explain the measurement of yarn twist using the straightened fibre	07
	(b)	principle.  Explain in detail the Shirley stiffness tester.  OR	07
Q.4	(a) (b)	Explain in detail the Shirley air permeability tester. Explain in detail the Stelometer.	07 07
Q.5	(a) (b)	Explain the Shirley crease recovery tester.  Explain in detail the Wira Crimp Tester.  OR	07 07
Q.5	(a) (b)	Explain measurement of fibre fineness using Sheffield micronaire.  Explain the measurement of drape using drapemeter.	07 07

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