Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER - VI (NEW).EXAMINATION - WINTER 2016** 

	-	ect Code: 2162903 Date: 22/10/2016 ect Name: Physical Testing-II	
T	ime	: 10:30 AM to 01:00 PM Total Marks: 70 ctions:  1. Attempt all questions.	
		<ol> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>	
Q.1	(a)	Explain the construction and working of Drape meter and how drapability can be increased?	07
	<b>(b)</b>	With neat sketch explain fabric stiffness measurement by cantilever principle.	07
Q.2	(a) (b)	Explain the quadrant balance for measuring fabric GSM. Explain the principle of CRE, CRL and CRT in brief.  OR	07 07
	<b>(b)</b>	Define the term water proof, shower proof, water repellent and wettabilty.	07
Q.3	(a) (b)	Discuss the methods used for determining the thread per inch in fabric.  Explain construction and working of hydraulic bursting strength tester.  OR	
Q.3	(a) (b)	Define the term Bending Modulus & Flexural Rigidity. Also give their significance.  Explain fabric crease recovery tester with neat sketch.	07
Q.4	(a) (b)	Explain the Shirley air permeability tester with sketch.  Explain working of any one instrument for testing the tearing strength of fabric.  OR	
Q.4	(a) (b)	Define air permeability, air resistance and air porosity. Explain in detail Pilling of fabric.	07 07
Q.5	(a) (b)	Explain the Fabric thickness gauge in detail.  Write short note on Yarn crimp and its measurement.  OR	07 07
Q.5	(a) (b)	Explain with neat diagram Martindale abrasion tester.  Explain with a neat diagram the Spray test for fabric.	07 07

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