## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016

Subject Code:2162807 Date:21		05/2016	
Subject Name: Chemical & Physical Analysis of Textiles  Times 10:20 AM to 01:00 BM  Total Market 7			
Time: 10:30 AM to 01:00 PM Instructions:  Total Marks:			KS: /U
1. Attempt all questions.			
	2.	Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	State various methods employed for the removal of moisture from fibres. Discuss any two in detail.	07
	<b>(b)</b>	•	07
Q.2	(a) (b)		07 07
	(0)	reagents.	07
		OR	
	<b>(b)</b>	Discuss how the microscopic methods are used for analysis of fibre identification.	07
Q.3	(a)	Enumerate various methods of measurements of twist in yarn. Describe the Rock bank twist tester in detail.	07
	<b>(b)</b>	Explain with neat sketch the working of the air permeability tester. <b>OR</b>	07
Q.3	(a)		07
	<b>(b)</b>	Write a brief note on: Measurement of maturity of cotton fibres.	07
Q.4	(a)	Give the significance of measuring the tearing strength of fabric. Explain with neat sketch the working of Elemendrops tearing strength tester.	07
	<b>(b)</b>		07
Q.4	(a)		07
	<b>(b)</b>		07
Q.5	(a)	Discuss various methods used for determination of the blend content of textiles.	07
	(b)	Give the significance of measuring the blend content in textiles and also discuss the different factors affecting the accuracy of quantitative analysis of them.	07
0.5	(a)	<b>OR</b> With the help of neat sketches, explain the different methods used to find	07
Q.5	(a)	the Melting point of textile fibres.	
	<b>(b)</b>	Write a brief note on: Determination of refractive index and birefringence of textiles.	07

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