Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER • 2014

	· ·	Code: 152905 Date: 24-00-2014	
	-	Name: Textile Manufacturing Processes	
	ie: 10 uctio	0.30 am - 01.00 pm Total Marks: 70	
HISTI	ucuoi 1.		
	2.	Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1		Explain briefly the principles of Ring spinning and Rotor spinning and compare the properties of the yarn spun out of these two techniques.	
(I	<b>(b)</b>	Discuss the advantages and disadvantages of non-woven fabrics.	07
Q.2	(a)	Write on the various tests conducted on fabric to assure its properties before it is utilized in the garment manufacturing industry.	07
	<b>(b)</b>	Explain the principle and working of shuttleloom and state its limitations, if any.	07
	<b>(3.</b> \)	OR	0=
	<b>(b)</b>	Explain the working of rapier loom and discuss how weft insertion by rapier is different from the other weft insertion techniques.	07
Q.3	(a)	Write on the factors influencing the quality of the yarn spun utilizing different techniques.	07
	<b>(b)</b>	Compare the properties of woven and knitted fabric. <b>OR</b>	07
Q.3	(a)	sketch.	07
	<b>(b)</b>	Differentiate between warp and weft knitting.	07
Q.4	(a)	Discuss about the factors resulting in stoppage of loom and how it can be taken care of to achieve maximum efficiency during weaving.	07
	<b>(b)</b>	Write on the various techniques utilized for manufacturing of non-woven fabric.	07
		OR	
<b>Q.4</b>	(a)	Explain the working of a projectile loom.	07
	<b>(b)</b>	Write on the various stages involved in manufacturing of non-woven fabrics.	07
Q.5	(a)	State the objectives of marker planning and explain the requirements in marker planning process.	07
	<b>(b)</b>	Discuss about the various quality check points considered at different stages of manufacturing of garment.	07
		OR	
Q.5	(a)	Define seams and stitches and discuss about the various defects generated in garment during sewing process.	07
	<b>(b)</b>	Write on the various finishing processes carried out on garment.	07