Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER • 2015

Subje	ect (Code: 152905 Date: 15/05/2	015
Subje	ect l	Name: Textile Manufacturing Processes	
Time	: 02	2.30pm-05.00pm Total Marks	: 70
Instructions:			
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What are the tasks of Ring Frame? Explain in brief about Drafting unit, Ring and Traveller of Ring Frame.	07
	(b)		07
Q.2	(a)	Write functions of Rotor spinning. Also show passage of material in Rotor spinning machine.	07
	(b)	How yarn is produced on Rotor spinning machine? OR	07
	(b)	Compare the yarn characteristics of Ring spinning, Rotor spinning, Friction spinning and Air jet spinning process.	07
Q.3	(a)	Draw neat diagram of DREF-1 and DREF-2. Also write limitations of Friction spinning process.	07
	(b)	1 01	07
Q.3	(a) (b)		07 07
Q.4	(a)	Define Shedding mechanism. Also explain Tappet shedding mechanism with neat diagram.	07
	(b)	6	07
Q.4	(a)	Define knitting. Also explain in brief about Courses, Wales, Stitch density and Stitch length.	07
	(b)	Give comparison of weft and warp knitting in detail.	07
Q.5	(a)	Define non woven fabric. Also write in detail about Adhesive bonding technique.	07
	(b)	1	07
Q.5	(a) (b)	Write brief note on – (i) Marker planning & (ii) Spreading	07 07
