GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–V (OLD) - EXAMINATION – SUMMER 2017			
)17
Subject Name: Textile Manufacturing Processes(Institute Elective - II)			
	Time: 02:30 PM to 05:00 PM Total Marks:		
Instructions:			
	 Attempt all questions. Make suitable assumptions wherever necessary. 		
		Figures to the right indicate full marks.	
Q.1	(a)	Explain passage of yarn through ring frame with a neat sketch.	07
	(b)	State the function of following parts of plain power loom:	07
		Back rest, lease rod, heald shaft, reed, shuttle, temple and emery roller.	
Q.2	(a)	What is nonwoven? Briefly write applications of nonwoven fabric.	07
	(b)	Explain the working of DREF III spinning with a neat sketch.	07
	(b)	OR	07
	(b)	State the classification of looms. Compare shuttle and shuttleless loom.	07
Q.3	(a)	Explain how a rotor spun yarn produce on rotor spinning with a neat sketch.	07
	(b)	Compare convention and new spinning technology. OR	07
Q.3	(a)	Explain passage of yarn through air jet spinning with a neat sketch.	07
· ·	(b)	What are objectives of ring frame? Compare yarn characteristics of rotor and	07
		ring spun yarn.	
Q.4	(a)	Draw the passage of warp through plain power loom and list out different	07
		motions involve in fabric construction.	
	(b)	Give the importance of accumulator in shuttleless loom? Explain any one	07
		shuttleless loom with a neat sketch. OR	
Q.4	(a)	Explain tappet shedding mechanism of plain power loom with a neat sketch.	07
-	(b)	Write short note on marker planning and spreading.	07
Q.5	(a)	Write flow chart of sequence of operation of garment manufacturing process	07
-		and state the function of each operation.	
	(b)	What is knitting? Explain weft knitting machine with a neat sketch.	07
Q.5	(a)	OR Give the classification of nonwoven. Explain in brief needle punching	07
V	(a)	nonwoven techniques.	07
	(b)	Write short note on types of seam and stitches.	07
