Seat No.:	Enrolment No

## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- IV(NEW) EXAMINATION - SUMMER 2015

Subject Code: 2142806 Subject Name: Textile Manufacturing - II			Date:26/05/2015	
-	<b>: 10</b>	:30am-1.00pm Total Marks:	70	
	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a)	What is Warping process? What are the objects of Warping? Also calculate the length of warp that can be produced per day of 8 hrs on an improved high speed beam warper if the warping speed is 610 yards per min. The efficiency is 75%.	07	
	<b>(b)</b>	Explain Slow speed beam warping machine with suitable diagram.	07	
Q.2	(a) (b)	Discuss different types of Creel used in Warping process. Write in brief about Mechanical thread stop motion used in Warping process with suitable diagram.	07 07	
	<b>(b)</b>	OR What is 'Dobby'? With neat sketch, discuss any one dobby in detail.	07	
	(D)	what is Dobby! With heat sketch, discuss any one dobby in detail.		
Q.3	(a) (b)	Explain in brief about Sectional warping process.  State types of Jacquard. Discuss Single lift Jacquard with suitable diagram.  OR	07 07	
Q.3	(a) (b)	What is Weaving? Show passage of warp in plain power loom. Give classification of Weaving machines. Also write short note on – Types of Weaves.	07 07	
Q.4	(a) (b)	Discuss primary, secondary and auxiliary motions of plain power loom.  What is Garment manufacturing process? Show flow chart of different operations performed in Garment manufacturing process.  OR	07 07	
<b>Q.4</b>	(a)	What is Knitting? Also define following terms related to knitting:	07	
	<b>(b)</b>	1) Courses 2) Wales 3) Stitch density and 4) Stitch length. Define Nonwoven fabric. Explain Needle punching technique in detail.	07	
Q.5	(a) (b)	Write objects of Sizing. Discuss different creels used in sizing process.  With neat sketch, explain in detail Slasher sizing machine.  OR	07 07	
Q.5	(a) (b)	Discuss in brief about Sizing ingredients and Size preparation.  Explain Air jet & Water jet weft insertion systems with suitable diagrams.	07 07	

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