Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- IV• EXAMINATION - SUMMER 2015

Subject Code:142803 Subject Name: Yarn Preparation & Weaving			Date: 03/06/2015	
Ti	_	0.30am-01.00pm Total Marks:	70	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	With a neat sketch, explain the passage of material on pirn winding machine. State the function of following parts in plain power loom: (i) Shuttle (ii) Temples (iii) Reed (iv) Race board	07 07	
Q.2	(a) (b)	Compare random winding and precision winding briefly. Describe additive and multiplicative type tensioners briefly. OR	07 07	
	(b)	Write a short note on different types of clearers used on winding machine.	07	
Q.3	(a)	State the objects of warping. Hence describe any warping machine with neat sketch.	08	
	(b)	Discuss briefly about sizing ingredients.	06	
		OR		
Q.3	(a)	State the objects of sizing machine. Hence describe any sizing machine with neat sketch.	08	
	(b)	What are auxiliary motions on plain power loom? List out auxiliary motions and briefly describe their functions.	06	
Q.4	(a)	Explain the passage of material on plain power loom with a neat labeled diagram. Also explain how fabric is formed.	10	
	(b)	Compare 5 wheel and 7 wheel take up motion briefly. OR	04	
Q.4	(a)	What is the requirement of jacquard mechanism? Describe construction and working of any one jacquard with neat sketch.	10	
	(b)	Compare cone over pick and cone under pick motion.	04	
Q.5	(a) (b)	Explain construction and working of climax dobby with a neat sketch. Describe beat up motion on plain power loom with neat sketch.	08 06	
Q.5	(a) (b)	OR with neat labeled diagram, explain the process of False twist texturising. State the features of modern winding machines.	10 04	
