Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VIII • EXAMINATION – SUMMER 2014

Subject Code: 182902 **Date: 31-05-2014**

Subject Name: Process and Quality Control in Weaving

Time: 10.30 am - 01.00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Discuss the wrong work practices which would affect the hard waste level in winding.	**07**
	(b)	Discuss in detail On-line monitoring of yarn quality on winder.	**07**
Q.2	**(a)**	Discuss in detail advances in Sectional warping.	**07**
	(b)	Discuss in brief the features of the creel which helps in improving the performance in warping.	**07**
		OR	
	(b)	Discuss in detail recent developments in the Head stock of Direct warping machines.	**07**
Q.3	**(a)**	Discuss in detail the features of state-of the–art sizing machines.	**07**
	(b)	Discuss in brief about High Pressure Squeezing.	**07**
		OR	
Q.3	**(a)**	Discuss in detail factors affecting the drying capacity of a cylinder drier.	**07**
	(b)	Explain the precautions of weaving Polyester/ Cotton blend yarns.	**07**
Q.4	**(a)**	Explain the causes and remedies of 'Warp Streaks' in fabrics.	**07**
	(b)	Discuss in detail the principle and benefits of wet-in wet (wet size sow box).	**07**
		OR	
Q.4	**(a)**	Explain the 10 point system of fabric inspection.	**07**
Q.4	**(b)**	Explain the finished fabric grading system.	**07**
Q.5	**(a)**	Explain the causes and remedies of 'Starting Marks' in fabrics.	**07**
	(b)	Explain the grey room inspection system in detail.	**07**
		OR	
Q.5	**(a)**	Explain control of productivity by control of loom speeds.	**07**
	(b)	Explain how the reed and heald parameters influence the warp breaks and hence productivity on the loom.	**07**

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