## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VIII • EXAMINATION - SUMMER 2013

Sul Tin	oject	Attempt all questions.  Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Write in short on unwinding tension at winding.  Discuss on Patterning damage occurring on wound bobbins. Give causes and remedies.	07 07
Q.2	(a) (b)	Discuss on Quality of warping beam.  What is the importance of control of tension level in minimizing end breaks at warping?	07 07
		OR	
	(b)	<ul><li>i. Discuss the procedure to calculate expected efficiency at warping.</li><li>ii. Removal of yarn faults at warping stage is not significant. why?</li></ul>	07
Q.3	(a) (b)	Explain stops due to warp breaks and warp faults on loom.  Explain factors affecting calculation of loom efficiency.  OR	07 07
Q.3	(a) (b)	Explain stops due to weft breaks on loom.  Discuss on methods to reduce belt slippage for loom drive.	07 07
Q.4	(a) (b)	Discuss on Quality of sizing beam.  i. Discuss about after waxing technique.  ii. Give sizing-weaving curve and discuss how optimum size pick up level is decided?  OR	07
Q.4	(a)	Explain effect of immersion roller, squeezing roller and level of size paste on average size pick up.	07
	(b)	Write in short on Preparation of size recipe.	07
<b>Q.</b> 5	(a) (b)	<ul><li>Effect of reed parameters and Drop pins on weaving performance.</li><li>i. What is the importance of ATIRA Cam Analyser for shedding tappets?</li><li>ii. What are the control measures related with yarn content on pirn?</li></ul>	07 07
Q.5	(a) (b)	Explain variable staggering of healds and asymmetric shedding tappets. Write on minimizing end breaks at pirn winding stage and improving the build of the pirn.	07 07

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