

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE SEM-VIII Examination May 2012****Subject code: 182902****Subject Name: Process & Quality Control in Weaving****Date: 12/05/2012****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) Why machinery audit is essential for direct control of any process? **07**  
 (b) Discuss in brief about the factors affecting size pick-up variations. **07**
- Q.2** (a) How one can minimize the end breaks in warping? **07**  
 (b) Which are the factors governing productivity of winding? **07**
- OR**
- (b) State the importance of quality of Knots. Give the formula of Clearing efficiency & Knot factor of slub catcher. **07**
- Q.3** (a) How one can improve quality of warping beams? **07**  
 (b) Mention the causes of actual loss of sizing ingredients. How one can minimise it? **07**
- OR**
- Q.3** (a) Which are the causes of low productivity at warping? **07**  
 (b) Discuss on control of yarn stretch at sizing. **07**
- Q.4** (a) Which are the measures should be taken in to consideration to improve the quality of pirn? **07**  
 (b) State the factors affecting Loom efficiency. Give the correct method for it's calculation. **07**
- OR**
- Q.4** (a) Discuss about the causes of weft breaks on loom & suggest the remedies. **07**  
 (b) Explain the Reed parameters in detail. **07**
- Q.5** What are the aspects of fabric quality control in loomshed? Give causes & remedies of Weft bar & Small Weft loops(Phurkies) –Fabric defects. **14**
- OR**
- Q.5** What type of meaningful information should be collected during Grey fabric inspection? Discuss in detail about Lashing-in & Starting Marks(Jerki & Patti)-Fabric defects. **14**

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