

GUJARAT TECHNOLOGICAL UNIVERSITY
B.E. - SEMESTER – VIII EXAMINATION – OCTOBER 2012

Subject Code: 182902

Date: 29/10/2012

Subject Name: Process & Quality Control in Weaving

Time: 02.30pm - 05.00pm

Total Marks: 70

Instructions:

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

- Q.1** (a) Discuss on Quality of warping beam. **07**
 (b) Write on minimizing end breaks at pirn winding stage and improving the build of the pirn. **07**
- Q.2** (a) Discuss on Quality of sizing beam. **07**
 (b) Discuss stops due to warp breaks & warp faults on loom. **07**
- OR**
- (b) Methods to reduce belt slippage for loom drive. **07**
- Q.3** (a) Explain Patterning damage occurring on wound bobbins. Give causes and remedies. **07**
 (b) Discuss unwinding tension at winding. **07**
- OR**
- Q.3** (a) i. Discuss yarn stiches damage occurring on wound bobbin. **07**
 ii. Discuss Importance of quality of knot. **07**
 (b) Discuss the importance of control of tension level in minimizing end breaks at warping. **07**
- Q.4** (a) Give causes and remedies for weft bar damages. **07**
 (b) i. Derive and discuss equation to calculate operative efficiency. **07**
 ii. Give diagnostic chart for loom shed efficiency. **07**
- OR**
- Q.4** (a) “It is not possible to maintain desired loom speed if the mechanical condition of the loom is not satisfactory”. Justify this statement. **07**
- Q.4** (b) i. Discuss Methodology of direct control. **07**
 ii. Discuss the points considered for setting norms & formulating schedule of checks. **07**
 iii. Write points to control small weft loop damage. **07**
- Q.5** (a) Discuss control of yarn stretch at sizing. **07**
 (b) Explain stops due to weft breaks on loom. **07**
- OR**
- Q.5** (a) Explain effect of immersion roller, squeezing roller & level of size paste on average size pick up. **07**
 (b) Effect of reed parameters and Drop pins on weaving performance. **07**
