

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER–VIII • Remedial EXAMINATION – WINTER 2013

Subject Code: 182902**Date: 16/09/2013****Subject Name: Process and Quality Control in Weaving****Time: 03:00 pm – 05:30 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) i. Which points are to be considered for setting norms and formulating schedule of checks? **07**
 ii. Write points to control small weft loop damage.
- (b) Give causes and remedies for weft bar damages. **07**
- Q.2** (a) Write in short on Quality of warping beam. **07**
 (b) i. Discuss the procedure to calculate expected efficiency at warping. **07**
 ii. Removal of yarn faults at warping stage is not significant. why?
- OR**
- (b) What is the importance of control of tension level in minimizing end breaks at warping? **07**
- Q.3** (a) Discuss on Quality of sizing beam. **07**
 (b) Discuss effect of Viscosity of size paste, Squeezing pressure and condition of squeezing nip and density of ends on average size pick up. **07**
- OR**
- Q.3** (a) i. Discuss about after waxing technique. **07**
 ii. Give sizing-weaving curve and discuss how optimum size pick up level is decided?
 (b) Write in short on Control of yarn stretch at sizing. **07**
- Q.4** (a) Explain Stops due to warp breaks and warp faults on loom. **07**
 (b) i. Derive and discuss equation to calculate operative efficiency. **07**
 ii. Give diagnostic chart for loom shed efficiency.
- OR**
- Q.4** (a) Write in short on Methods to reduce belt slippage for loom drive. **07**
 (b) Explain stops due to weft breaks on loom. **07**
- Q.5** (a) Explain variable staggering of healds and asymmetric shedding tappets. **07**
 (b) Write on minimizing end breaks at pirn winding stage and improving the build of the pirn. **07**
- OR**
- Q.5** (a) Effect of reed parameters and Drop pins on weaving performance. **07**
 (b) i. What are the control measures related with yarn content on pirn? **07**
 ii. What is the importance of ATIRA Cam Analyser for shedding tappets?
