

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VIII • EXAMINATION – SUMMER 2013

Subject Code: 182902

Date: 13-05-2013

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) Write in short on unwinding tension at winding. **07**
(b) Discuss on Patterning damage occurring on wound bobbins. Give causes and remedies. **07**
- Q.2** (a) Discuss on Quality of warping beam. **07**
(b) What is the importance of control of tension level in minimizing end breaks at warping? **07**
- OR**
- (b) i. Discuss the procedure to calculate expected efficiency at warping. **07**
ii. Removal of yarn faults at warping stage is not significant. why?
- Q.3** (a) Explain stops due to warp breaks and warp faults on loom. **07**
(b) Explain factors affecting calculation of loom efficiency. **07**
- OR**
- Q.3** (a) Explain stops due to weft breaks on loom. **07**
(b) Discuss on methods to reduce belt slippage for loom drive. **07**
- Q.4** (a) Discuss on Quality of sizing beam. **07**
(b) i. Discuss about after waxing technique. **07**
ii. Give sizing-weaving curve and discuss how optimum size pick up level is decided?
- OR**
- 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**
- Q.5** (a) Effect of reed parameters and Drop pins on weaving performance. **07**
(b) i. What is the importance of ATIRA Cam Analyser for shedding tappets? **07**
ii. What are the control measures related with yarn content on pirn?
- OR**
- 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**
