

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – VIII. EXAMINATION – WINTER 2016

Subject Code: 182902**Date: 20/10/2016****Subject Name: Process & Quality Control in Weaving****Time: 02:30 PM to 05:00 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) The process control programme at winding should consist of what? **05**
 (b) What should be done for controlling productivity at winding? **04**
 (c) Discuss in brief about Stitching or Jali on the cones. **05**
- Q.2** (a) Discuss the process parameters which govern the removal of faults in Winding. **07**
 (b) Discuss the systems prevalent in industry for keeping records of production per worker on non-automatic winding machines. **07**
- OR**
- (b) Discuss how end breaks in warping can be minimized? **07**
- Q.3** (a) The productivity at warping depends on what? Discuss the causes of low productivity. **07**
 (b) Give the reasons for reduction in extensibility of yarn. **03**
 (c) Enlist the aspects of process control programme at sizing. **04**
- OR**
- Q.3** (a) Discuss in detail determination of size pick-up in a beam. **07**
 (b) What is the influence of Squeezing nip & depth of immersion roller in the size paste on size pick-up? **07**
- Q.4** (a) How end breaks in Pirn winding can be minimised? **07**
 (b) What are the types of loom stoppages? **03**
 (c) Which are the factors increasing the end breaks in the loomshed? **04**
- OR**
- Q.4** (a) Discuss the reed parameters affecting the warp breakage rate during weaving significantly. **07**
 (b) Discuss the stops due to weft breaks on a loom. **07**
- Q.5** (a) At what levels control over the frequency of defects in fabric needs action? **07**
 (b) What are Warp Streaks? What are the important causes of Streaks? Enlist the steps that helps in minimizing Warp Streaks. **07**
- OR**
- Q.5** (a) What is meant by Phurki? What are the remedial measures helping in reducing the incidence of Phurkies? **07**
 (b) What are the levels to control yarn waste in weaving? **04**
 (c) Highlight the importance of Singeing in Voile fabrics. **03**
