

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEMESTER VIII(OLD) – • EXAMINATION – WINTER 2017

Subject Code:182902**Date: 02-11-2017****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) Discuss the measures to be taken for controlling productivity at Winding? **04**
(b) Discuss in detail the causes for Hard waste in Winders. **10**
- Q.2** (a) How end breaks in Pirn Winding can be minimized? **07**
(b) Discuss in brief general considerations for selection of ingredients in sizing. **07**
- OR**
- (b) Discuss preparation of size recipe. **07**
- Q.3** (a) How patterning can be avoided in spindle driven packages? **07**
(b) Discuss the important factors affecting end breaks in warping. **07**
- OR**
- Q.3** (a) Discuss the causes for low productivity in warping. **07**
(b) Discuss control of yarn stretch on sizing machine. **07**
- Q.4** (a) Discuss the stops due to weft breaks on a loom. **07**
(b) Discuss the settings which help to increase the efficiency of the warp-stop motion. **07**
- OR**
- Q.4** (a) Broadly classify various loom stops. **07**
(b) Discuss the effect of reed parameters on warp breakage rate during weaving. **07**
- Q.5** (a) What is meant by Phurki? What are the remedial measures helping in reducing the incidence of Phurkies? **10**
(b) What are the levels to control yarn waste in weaving? **04**
- OR**
- Q.5** (a) Highlight the importance of Singeing in Voile fabrics. **06**
(b) At what levels control over the frequency of defects in fabric needs action? **08**
