

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.

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|------------|---|-----------|
| 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 |
