

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – IV • EXAMINATION – WINTER 2012

Subject code: 142803**Date: 29/12/2012****Subject Name: Yarn Preparation and Weaving****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain in detail about Pirn Winding machine. **07**
(b) State objects of Clearers. Explain different types of Clearers in brief. **07**
- Q.2** (a) Discuss in detail about different types of Tensioners. **07**
(b) Write short note on - Random winding. **07**
- OR**
- (b) Discuss features of Modern winding machines. **07**
- Q.3** (a) With suitable diagram, explain Slow speed beam warping machine. **07**
(b) Describe different types of Creels used in warping. **07**
- OR**
- Q.3** (a) Discuss in detail about Sizing ingredients. **07**
(b) Define sizing. Also discuss Slasher sizing machine with neat sketch. **07**
- Q.4** (a) Explain different yarn and package faults in detail. **07**
(b) Write in brief about basic mechanisms/motions of Plain power loom. **07**
- OR**
- Q.4** (a) Explain Tappet Shedding mechanism with neat sketch. **07**
(b) With suitable diagram, explain any one Take up motion in detail. **07**
- Q.5** (a) With neat sketch, briefly explain construction and working of Climax dobbie. **07**
(b) State types of Jacquard. Also explain principle of Single lift jacquard with suitable diagram. **07**
- OR**
- Q.5** (a) What is Texturising? Explain in brief about principle of False twist texturising. **07**
(b) Write short note on Air jet Texturising. **07**
