

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV • EXAMINATION – SUMMER 2013****Subject Code: 142803****Date: 14-06-2013****Subject Name: Yarn Preparation and Weaving****Time: 10:30am – 01:00pm****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) Define: i. Wind per double traverse ii. Precision Winding. **07**
(b) Explain the functions of basic components of a winder. **07**
- Q.2** (a) Draw only block diagrams showing working of photo-electric and capacitance type of clearers. **07**
(b) What is an ideal splicing? Explain the principle of pneumatic splicing. **07**
OR
(b) Explain the methods of weft preparation briefly. **07**
- Q.3** (a) With a neat and labeled diagram explain passage of warp through ordinary beam warper. **07**
(b) Discuss the sequence of size preparation. **07**
OR
- Q.3** (a) With a neat and labeled diagram explain passage of warp through a sizing machine. **07**
(b) Discuss various methods of squeeze roller weighting. **07**
- Q.4** (a) Explain the passage of material on plain power loom with neat sketch and list out important parts. **10**
(b) Briefly discuss different types of shed. **04**
OR
- Q.4** (a) With a neat sketch describe cone underpick motion. **07**
Q.4 (b) With a neat sketch describe 7 wheel take up motion. **07**
- Q.5** (a) With a neat sketch describe any one weft stop motion with neat sketch. **07**
(b) Discuss tappet shedding motion with neat sketch. **07**
OR
- Q.5** (a) Describe working of climax dobby with neat sketch. **07**
(b) State the objects of texturising. Describe any one method of texturising briefly. **07**
