

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

**Subject code: 132903****Date: 04-01-2013****Subject Name: Weaving – I****Time: 10.30 am – 01.00 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) Give a neat sketch of passage of warp through the loom and discuss in short function of each mechanism. **07**  
 (b) What are the objects of yarn tensioning devices? Discuss in detail about different yarn tensioning devices. **07**
- Q.2** (a) What are the objects of Pirn Winding? Enlist the qualities of a good pirn. **07**  
 (b) Explain different types of shed formation with a neat sketch. **07**
- OR**
- (b) Define Draft, Design and Peg plan with suitable example. Discuss different types of healds. **07**
- Q.3** (a) With a neat sketch explain construction and working of Cone over pick mechanism. **07**  
 (b) Discuss in short on Shuttle flight control. **07**
- OR**
- Q.3** (a) Discuss construction and working of Beat-up mechanism with a neat sketch. Also give timing & setting of it. **07**  
 (b) Give the construction, working and setting of Negative Let-off mechanism with a neat sketch. **07**
- Q.4** (a) What are the objects of yarn clearer? Discuss on mechanical yarn clearer. **07**  
 (b) Discuss the features of modern Auto coner winding machine. **07**
- OR**
- Q.4** (a) Give classification of yarn clearer. Discuss on Photo electric yarn clearer. **07**  
 (b) What is meant by 'Ribboning'? Give causes and remedies of it. **07**
- Q.5** (a) With a neat sketch explain 7-wheel take up mechanism. Discuss timing and setting of it. **07**  
 (b) Discuss on package build in drum driven winding machine. **07**
- OR**
- Q.5** (a) Discuss on Loose reed warp protector mechanism with a neat sketch. **07**  
 (b) With a neat sketch explain Cam Traverse motion on a winder. **07**

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