

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III (OLD) EXAMINATION – WINTER 2017****Subject Code:132903****Date:21/11/2017****Subject Name: Weaving-I****Time: 10:30 AM to 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) State purpose of Winding. Also explain precision winding. **07**

(b) State objects of the tensioner. Discuss in detail about types of tensioner. **07**

Q.2 (a) Write short note on – Pirn Winding. **07**

(b) Discuss in detail about different Package faults in winding. **07**

OR

(b) Explain the features of Autoconer with a neat sketch. **07**

Q.3 (a) State the objects of yarn clearers. Discuss capacitance type electronic yarn clearer. **07**

(b) Write short note on Knotting and Splicing. **07**

OR

Q.3 (a) Define – Weaving Mechanism. Also show passage of material in Plain power loom. **07**

(b) Define: - Warp, Weft, Weave, Selvage, Draft, Design and Peg plan. **07**

Q.4 (a) Write short note on – “Types of shed”. **07**

(b) With diagram, explain loom timing. Why dwell in the shedding is necessary? **07**

OR

Q.4 (a) Explain Tappet Shedding with a neat sketch. **07**

(b) Discuss construction and working of a beat-up mechanism. **07**

Q.5 (a) Explain 7-wheel take up motion with a neat diagram. **07**

(b) With neat sketch, explain working of cone over pick mechanism. **07**

OR

- Q.5 (a) With suitable diagram, explain Loose rod worn protector mechanism. **07**
- (b) Explain in detail about Side Weft Fork motion. **07**

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