

GUJARAT TECHNOLOGICAL UNIVERSITY**BE SEM-III Examination May 2012****Subject code: 132903****Subject Name: Weaving-I****Date: 09/05/2012****Time: 02.30 pm – 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.

- Q.1** (a) State the objects of Winding process and give its classification. What winding should not do? **07**
- (b) Draw a neat sketch for the passage of yarn through the loom along with the name of the parts. **07**
- Q.2** (a) Explain the loom timing diagram. Define: - Warp, Weft and Selvedge. **07**
- (b) What are the objects of the tensioner. Discuss in brief about Multiplicative tensioner. **07**
- OR**
- (b) Discuss different types of shed formation with a neat sketch. **07**
- Q.3** (a) Explain cone over-pick mechanism with a neat sketch. **07**
- (b) Discuss the working of broken thread stop motion with a neat figure. **07**
- OR**
- Q.3** (a) Explain construction and working of a beat-up mechanism with a neat sketch. **07**
- (b) State the objects of yarn clearers. Discuss capacitance type electronic yarn clearer. **07**
- Q.4** (a) Explain negative let off motion with a neat sketch. **07**
- (b) Discuss the different types of rotary traverse in detail. **07**
- OR**
- Q.4** (a) Explain 7-wheel take up motion with a neat diagram. **07**
- (b) Which are the methods of weft preparation? Mention the advantages of rewound weft. **07**
- Q.5** (a) With a neat sketch explain loose reed warp protector mechanism. **07**
- (b) Explain the features of Autoconer with a neat figure. **07**
- OR**
- Q.5** (a) Discuss retardation of shuttle and shuttle flight control. **07**
- (b) Discuss eccentricity in sley movement. Define: - Draft, Design and Peg plan. **07**
