

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III EXAMINATION – WINTER 2015

Subject Code:132903**Date:02/01/2016****Subject Name: Weaving - I****Time: 2:30pm to 5:00pm****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) Explain the passage of material through warp winding machine with diagram. **07**
(b) Give classification of tensioners. Explain Additive type of tensioner in details. **07**
- Q.2** (a) Describe Beat-up mechanism with the help of suitable diagram. **07**
(b) Describe the passage of material through pirn winding machine with diagram. **07**
- OR**
- (b) Write short note: “Unifil loom winder” **07**
- Q.3** (a) Enlist objects of clearer. Explain Capacitance type yarn clearer with diagram. **07**
(b) With neat sketch explain working of side weft fork stop motion. **07**
- OR**
- Q.3** (a) Compare random and precision winding mechanism. **07**
(b) Mention the equations to find out winding speed, surface speed and traverse speed. Also relation between them. **07**
- Q.4** (a) With the suitable labels, only show the passage of material through Plain Power Loom. **07**
(b) Explain tappet shedding mechanism with suitable diagram. **07**
- OR**
- Q.4** (a) Explain cone over pick mechanism with diagram. **07**
(b) Enlist objects of shedding and explain types of shed with a neat sketch. **07**
- Q.5** (a) Explain let off motion of plain power loom with a neat sketch. **07**
(b) Write short note: “Loom Timing” of plain power loom. **07**
- OR**
- Q.5** (a) Explain loose Reed motion with a neat sketch. **07**
(b) Explain 7 wheel take up mechanism with diagram. **07**
