

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

Subject Code: 142803**Date:01/01/2016****Subject Name: Yarn Preparation & Weaving****Time: 02:30pm to 05:00pm****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) With a neat sketch explain the passage of material on modern winding machine. **07**
 (b) State the function of following parts on plain power loom. **07**
 (i) Lease Rods (ii) Reed (iii) Picker (iv) Emery Roller
- Q.2** (a) State the function of clearer on winding machine. **07**
 Hence describe different types of clearer briefly.
 (b) Explain working of ordinary pirn winding machine with neat sketch. **07**
- OR**
- (b) Compare random winding and precision winding briefly. **07**
- Q.3** (a) Write short note on sizing ingredients used for cotton . **07**
 (b) Explain the working of any modern warping machine with neat sketch. **07**
- OR**
- Q.3** (a) Describe construction and working of multi cylinder sizing machine with neat sketch. **07**
 (b) Explain sectional warping briefly with neat sketch. **07**
- Q.4** (a) Describe cone underpick picking motion on plain power loom in detail with neat sketch. **07**
 (b) Describe side weft fork motion used on plain power loom. **07**
- OR**
- Q.4** (a) What is the need for Jacquard mechanism ? Hence explain functioning of any one jacquard with neat sketch. **09**
 (b) What is Texturising ? State its objects. **05**
 Only list out various methods of Texturising.
- Q.5** (a) Explain Beat up motion on plain power loom with neat sketch. **07**
 (b) Describe 5 wheel take up motion with suitable sketch. **07**
- OR**
- Q.5** (a) Explain working of Climax doobby with neat sketch. **07**
 (b) Explain false twist texturising process briefly with neat sketch. **07**
