

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV • EXAMINATION – WINTER • 2014****Subject Code: 142803****Date: 31-12-2014****Subject Name: Yarn Preparation and Weaving****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 functions of tensioner. **07**
Hence describe Additive type of tensioner with sketch.
- (b) Describe functions of following parts on Plain Power loom: **07**
(i) Lease rods (ii) Reversing rollers (iii) Picker (iv) Emery roller
- Q.2** (a) State the function of Shuttle and pirn. **07**
Hence describe ordinary Pirn winding machine with neat sketch.
- (b) With a neat sketch describe yarn passage on a typical winding machine. **07**
- OR**
- (b) Describe Random winding briefly. **07**
- Q.3** (a) Describe the working of ordinary warping machine with neat sketch. **07**
- (b) Describe various ingredients used for preparation of size paste briefly along with their function. **07**
- OR**
- Q.3** (a) Describe Sectional warping with neat sketch. **07**
- (b) Describe Multi cylinder Sizing machine with neat sketch. **07**
- Q.4** (a) Describe Cone over pick picking motion with neat sketch. **07**
- (b) Describe Let off motion on Plain power loom with neat sketch. **07**
- OR**
- Q.4** (a) Describe 5 wheel take up motion with neat sketch. State its limitation. **07**
- (b) State the object of weft stop motion. **07**
Hence describe side weft fork stop motion with neat sketch.
- Q.5** (a) State the objects of Texturising. Hence list out various methods of texturising. **05**
- (b) With a neat sketch describe False twist Texturising method in detail. **09**
- OR**
- Q.5** (a) What is the object of using Dobby? **08**
Describe any one Dobby mechanism with neat sketch.
- (b) Draw and explain : (i) Plain Weave (ii) Twill Weave **06**
