

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 142803

Date: 08/06/2017

Subject Name: Yarn Preparation & Weaving

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) Draw the flow chart for warp and weft preparation for powerloom. **07**  
Hence describe role of drawing in department briefly.
- (b) Describe the functions of following parts on Powerloom : **07**  
(1) Reversing roller (2) Picker (3) Pirn (iv) Lease Rods
- Q.2** (a) Describe the passage of material on winding machine with neat sketch. **07**  
(b) Describe the role of tensioner on winding machine. **07**  
Hence describe different types of tensioner briefly.
- OR**
- (b) Describe the features of modern winding machines. **07**
- Q.3** (a) Describe passage of material on warping machine with neat sketch. **09**  
(b) State the features of modern warping machines briefly. **05**
- OR**
- Q.3** (a) Describe the passage of material on multi cylinder sizing machine with neat sketch. **09**  
(b) Discuss the various sizing ingredients used for cotton yarn briefly. **05**
- Q.4** (a) Describe Beat up motion on powerloom, with a neat sketch. **07**  
(b) Describe the working of pirn winding machine with neat sketch. **07**
- OR**
- Q.4** (a) With a neat sketch describe weft stop motion on Powerloom. **07**  
(b) Describe sectional warping machine with neat sketch. **07**
- Q.5** (a) Describe working of negative Climax doobby with neat sketch. **09**  
(b) What is Texturising ? State its objects. **05**  
Hence only list out different methods of texturising.
- OR**
- Q.5** (a) Describe working of any Jacquard briefly with sketch. **09**  
(b) State the secondary motions on Powerloom. **05**  
Hence describe their role in fabric formation briefly.

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