

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV(New) EXAMINATION – SUMMER 2016

Subject Code:2142902**Date:06/06/2016****Subject Name:Weaving Technology-I****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 Short Questions (Each carry one mark) 14**
- 1 What is an average speed and efficiency of super speed beam warping machine?
 - 2 How much humidity percentage is kept in sizing process?
 - 3 What it mean by Lappers?
 - 4 What is an average speed and efficiency of multi cylinder sizing machine?
 - 5 Which binders are commonly used for polyester/cotton sizing.
 - 6 State any one important object of yarn clearer.
 - 7 What is the function of Deliquescent in a size paste?
 - 8 What warping should avoid?
 - 9 What it means by Reed count?
 - 10 Give the efficiency in percentage of pirn winding machine.
 - 11 How much size-add on% are kept for normal count warp sett?
 - 12 Give full forms of HPS and LD ratio.
 - 13 Give the names of different types of warping creels.
 - 14 What it means by stretch percentage at sizing ?
- Q.2 (a) Draw a neat sketch of warp yarn through multi-cylinder sizing machine. 03**
- (b) State the objects of sizing. 04**
- (c) Discuss in detail about the different drawing –in methods. 07**
- OR**
- (c) Give the salient features of Super speed beam warping machine. 07**
- Q.3 (a) State the objects yarn tensioning devices. 03**
- (b) Explain about electronic yarn clearer. 04**
- (c) Discuss on package build on drum driven machine. 07**
- OR**
- Q.3 (a) Explain the role of Softeners and anticeptics in size preparation. 03**
- (b) Write a note on colour warp planning. 04**
- (c) Give the features of Sectional beam warping process. Why it is popular in present scenario ? 07**
- Q.4 (a) State the methods of weft preparation. 03**
- (b) Give advantages of rewind weft. 04**
- (c) Write a detail note on any one automatic size box. 07**
- OR**
- Q.4 (a) Give some brief idea of Gate type yarn tensioning device. 03**
- (b) Explain the concept of single end sizing system. 04**

- (c) Discuss about package build on drum driven machine. **07**
- Q.5** (a) Write a note on- Balloon breakers. **03**
(b) Explain the different types of winding packages. **04**
(c) Write a detail note on Pressure cooker. **07**
- OR**
- Q.5** (a) Explain Disc type yarn tensioning device. **03**
(b) Give the comparison between ordinary and high speed warping . **04**
(c) Draw a neat sketch of warp yarn through multi-cylinder sizing machine and explain the function of Float, Wraith & Immersion roller. **07**
