

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – IV • EXAMINATION – WINTER 2012

Subject code: 142805**Date: 31/12/2012****Subject Name: Elements of Textile Processes****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What are the objects of blow room? Also describe important components of blow room line. **07**
(b) Mention task of Ginning and explain any one ginning machine in detail. **07**
- Q.2** (a) Explain in detail about ring frame. **07**
(b) Write the function of draw frame and explain passage of material in draw frame. **07**
- OR**
- (b) Explain in detail about slasher sizing machine with neat sketch. **07**
- Q.3** (a) Describe in detail doubling and reeling. **07**
(b) Explain in detail about basic methods/ mechanisms of the loom. **07**
- OR**
- Q.3** (a) Write objects of winding and Explain pirn winding machine in detail. **07**
(b) Write in detail about waving mechanism. Also draw passage of material through plain power loom. **07**
- Q.4** (a) Describe Enzymatic desizing in detail. **07**
(b) Explain Gas singeing machine with neat sketch. **07**
- OR**
- Q.4** (a) Explain terminology of dyeing process. **07**
(b) Explain pressure kier scouring machine with neat sketch. **07**
- Q.5** (a) Discuss hypochlorite bleaching in detail. **07**
(b) Write down the objects of textile finishing. **07**
- OR**
- Q.5** Explain Scouring process in detail with uses of each ingredients. **14**
