

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. Sem. – IV - Examination –June- 2011****Subject code: 142805****Subject Name: Elements of Textile Processes****Date:13/06/2011****Time: 10.30 am – 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) Give objects of Ginning and explain any one kind of ginning machine in detail. **07**
(b) Mention basic operations of Blow room and draw passage of material in the Blowroom line. **07**
- Q.2** (a) Explain in detail about Carding Process. **07**
(b) What are objects of combing? Show passage of material in Combing machine. **07**
- OR**
- (b) Describe function of the Roving Frame and with neat sketch, explain passage of material in Roving Frame. **07**
- Q.3** (a) With neat diagram, explain yarn passage on Slow speed beam warping machine. **07**
(b) Describe in detail about Slasher Sizing machine alongwith its sketch. **07**
- OR**
- Q.3** (a) Explain Weaving mechanism and draw passage of warp through loom. Also mention basic weaves of the loom. **07**
(b) Mention Primary and Secondary motions of loom & explain Shedding motion/mechanism in detail. **07**
- Q.4** (a) With neat sketch, explain Gas Singeing machine. **07**
(b) Explain Scouring process with ingredients in detail. **07**
- OR**
- Q.4** (a) Discuss Mercerization process in brief. **07**
(b) Explain technological aspects of Dyeing process. **07**
- Q.5** (a) Write in detail about Sizing operation. **07**
(b) Discuss in brief Hypochlorite bleaching. **07**
- OR**
- Q.5** (a) Describe Enzymatic desizing in detail. **07**
(b) Give objects of textile finishing. **07**
