

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV • EXAMINATION – SUMMER 2013

Subject Code: 142805

Date: 17-06-2013

Subject Name: Elements of Textile Processes

Time: 10:30am – 01:00pm

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 objectives of spinning and discuss briefly how these are accomplished. **07**

(b) Discuss the processes involved at weaving preparatory stage. **07**

Q.2 (a) State and explain the different techniques utilized for weaving a fabric. **07**

(b) Explain why chemical processing of the fabric obtained from weaving machine is required before being taken to the subsequent process of garment manufacturing. **07**

OR

(b) State and discuss the objectives of textile finishing. **07**

Q.3 (a) State the functions of blow room and explain any one zone in detail. **07**

(b) Discuss the principle of drafting and doubling on a draw frame. **07**

OR

Q.3 (a) With a neat sketch explain the how the comber mechanism works. **07**

(b) Explain how drafting, twisting and winding process occurs on a ring frame machine. **07**

Q.4 (a) Explain the functions of different parts of winding machine. **07**

(b) Write on the advantages of doubling and explain the types of doubling. **07**

OR

Q.4 (a) Discuss the features of a warping machine. **07**

Q.4 (b) Write a short note on Reeling. **07**

Q.5 (a) Explain the working of sizing machine. **07**

(b) Explain briefly the objectives of the following process : Singeing, Shearing, Scouring and Bleaching. **07**

OR

Q.5 (a) Discuss the functions of different parts of a loom. **07**

(b) Explain briefly the process of Dyeing and Printing. **07**
