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

## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER-III • EXAMINATION – WINTER 2013

DE - SEMESTER-III · EAAMINATION – WINTER 2015			
Subject Code: 132802Date: 28-11-2013Subject Name: Elements of Textile Technology and Processing			
	Time: 02.30 pm - 05.00 pm         Total Marks: 70		
Instructions: 1. Attempt all questions.			
<ol> <li>Attempt an questions.</li> <li>Make suitable assumptions wherever necessary.</li> </ol>			
3. Figures to the right indicate full marks.			
Q.1	(a) (b)	To give process flow chart for carded and combed ring spun yarn. Enlist object of singeing and explain any one burner gas singeing machine with suitable diagram	07 07
Q.2	(a) (b)	In brief, explain passage of material through plain power loom with neat sketch. Describe the cone winding process with suitable diagram. <b>OR</b>	07 07
	<b>(b)</b>	Describe the Pirn winding process with suitable diagram.	07
Q.3	(a)	What do you mean by Sizing? Show the passage of material through two cylinder sizing machine.	07
	<b>(b)</b>	Explain Carding process in detail.	07
01	(-)	OR Describe the neuron of second former former	07
Q.3	(a) (b)	Describe the process of yarn formation on ring frame. Enlist object of draw frame machine. What do you mean drafting and doubling?	07 07
Q.4	(a) (b)	What are the objects of finishing? Explain calendaring process with neat sketch. Enlist different methods of printing. Explain roller printing machine with neat sketch.	07 07
OR			
Q.4	(a) (b)	Give classification of desizing methods. Explain chorite desizing in detail. Discussed in detail Hydrogen peroxide bleaching on cotton.	07 07
Q.5	(a) (b)	Describe tappet shedding motion briefly What is weaving? Draw the plain, twill and sateen weave. <b>OR</b>	07 07
Q.5	(a)	Describe any one picking mechanism with neat sketch.	07
	(b)	Enlist objects of speed frame machine and show passage of material through speed frame machine.	07

\*\*\*\*\*