Seat No.:	
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## GUJARAT TECHNOLOGICAL UNIVERSITY BE SEMESTER- 7th EXAMINATION - SUMMER 2015

Subject Code: 172901 Subject Name: Modern Spinning Technology			Date:14/05/2015	
Ti	-	02.30PM-05.00PM Total Marks: '	70	
	1 2 3	i j		
Q.1	<b>(a)</b>	Discuss the technical limitation of Rotor spinning with respect to count range.	07	
	(b)	Hence explain why it is suitable for only coarse counts. Describe important features of Spin box of modern rotor machine.	07	
Q.2	(a) (b)	Describe the structure of yarn obtained by air jet spinning with suitable sketches. Describe passage of material on Vortex Spinning machine with neat sketch.	07 07	
	(b)	<b>OR</b> Describe nozzles used for Airjet spinning and that used for Vortex spinning with suitable sketch. Hence compare them briefly.	07	
Q.3	(a) (b)	Write a short note on automation on modern rotor spinning machine. Discuss the major disadvantages of airjet spinning.	07 07	
		OR		
Q.3	(a) (b)	With a neat sketch, describe process of Siro spinning. Discuss the various advantages offered by shortening of spinning line with development of open end spinning.	07 07	
Q.4	<b>(a)</b>	With a neat sketch, describe friction spinning system which works with two drafting systems.	07	
	<b>(b)</b>	Describe Wrap spinning system with neat sketch.	07	
		OR		
Q.4	<b>(a)</b>	Discuss the major advantages of friction spinning.	07	
	(b)	Discuss advantages and disadvantages of Hollow spindle spinning.	07	
Q.5	<b>(a)</b>	Describe spinning triangle in normal ring spinning and in compact spinning with	08	
	(b)	suitable sketch. Discuss its influence on yarn properties. Describe Twilo spinning system with neat sketch.	06	
		OR		
Q.5	(a) (b)	Describe Rocos spinning system with suitable sketch. Describe Bob tex spinning system with neat sketch. Also draw the structure of yarn obtained.	06 08	

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