GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – WINTER • 2014

Subject Name: Modern Spinning Technology		Name: Modern Spinning Technology		
	Time: 10:30 am - 01:00 pm Total Marks: 70 Instructions:			
IIIS	1. 2.	Attempt all questions.		
Q.1	(a)	Why wrap spinning system is known as cover spinning? With neat sketch explain working of it.	07	
	(b)	With neat sketch classify air jet spinning yarn.	07	
Q.2	(a)	Explain the working of DREF3 and DREF2000 friction spinning system with neat sketch.	07	
	(b)	Discuss the term: spinning stability and maximum spinning time OR	07	
	(b)	Discuss: Influence of PTE on rotor yarn property and bipartite structure	07	
Q.3		With neat sketch explain working of SIRO spinning system. How strand spacing and twist influence the SIRO yarn property?	14	
Q.3		Briefly explain integration of straight and hooked fibre into yarn in rotor spinning system.	14	
Q.4	(a)	Discuss the method of production of integrated composite twist less spinning process.	07	
	(b)	Explain the principle of Murata vortex spinning with neat sketch. OR	07	
Q.4	(a)	Write a note on twilo spinning system.	07	
	(b)	Compare the structure of ring, rotor and fascinated spinning system yarn.	07	
Q.5	(a)	Discuss the working procedure of COM4condensed spinning system.	07	
	(b)	Write a note on self cleaning rotor. OR	07	
Q.5	(a)	With neat sketch explain ROCOS spinning system.	07	
-	(b)	What are the limitations of rotor spinning system and elaborately discuss why rotor spinning is not suitable to spun finer count.	07	
