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GUJARAT TECHNOLOGICAL UNIVERSITY

Subject Code: 2182907 Date: 25			11/2019	
Sub	ject	Name: Process & Quality Control in Spinning		
Time: 02:30 PM TO 05:00 PM Total Mark			ks: 70	
Instr	uctio			
		Attempt all questions.		
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
	3.	rightes to the right indicate run marks.	MARKS	
Q.1	(a)	State the need for process control in spinning?	03	
C		What is yarn realization?	04	
	(c)	Discuss in detail about the machine audit.	07	
Q.2	(a)	What is Productivity Index (PI)?	03	
	(b)	Discuss briefly about bale management.	04	
	(c)	Write a short note on yarn faults.	07	
		OR		
	(c)	Explain how the implementation of process control is carried out in cotton spinning.	07	
Q.3	(a)	What are the key variables for process control in spinning?	03	
	(b)	· · ·	04	
	(c)	Discuss how the yarn realization of a mill is judged. OR	07	
Q.3	(a)	~	03	
	(b)	How is performance of blow room assessed?	04	
	(c)	Discuss the measures to control the quality of mixing and hence the cost.	07	
Q.4	(a)		03	
	(b)		04	
	(c)	Discuss the technological considerations with reference to control of comber waste.	07	
		OR		
Q.4	(a)	Write briefly about control of variability of lea strength.	03	
~··	(b)		04	
	(c)	Discuss in detail about reducing within bobbin count variation.	07	

Q.5 (a) What is RKm of single thread? 03

(b) Write briefly about the high volume instrumentation. 04 **07**

(c) Discuss the factors affecting yarn strength. OR

Q.5 (a) State the causes of thick and thin places. 03 **(b)** Write briefly about package defects. 04

(c) Discuss the use of modern instruments in process control. **07**
