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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018

Subject Code: 2182907 Date: 19/11/2018

Subject Name: Process & Quality Control in Spinning

Time: 02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	`		MARK
Q.1	(A)	Enlist Parameters Contributing Cleaning Efficiency In Blow Room Explain The Effect Of Quality Of Drafting On Yarn Strength.	3 4
	(B)	State The Avoidable Causes Of Loss In Efficiency At Ring Frame And Suggest	
	(C)	Remedial Measures For Each Of Them.	7
Q.2	(A)	State The Methods To Measure Fractionating Efficiency Of A Comber.	3
	(B)	Discuss Implementation Of The Machinery Audit.	4
	(C)	Describe Determination Of Trash Content And Cleaning Efficiency For Blow Room.	7
		OR	
	(C)	How Machinery Audit Is Different Than Routine Maintains. Explain With Neat	7
0.4		Diagram Any One Instrument Used For Machinery Audit.	
Q.3	(A)	What Is The Importance Of Process Control In Spinning	3
	(B)	Explain In Brief Modern Process Control In Spinning. Describe Performance Assessment Of Comber.	4 7
	(C)	OR	,
Q.3	(A)	What Is Yarn Realisation, Enlist Parameters Affecting It.	3
	(B)	Write Brief Note On Bale Management In Spinning.	4
	(\mathbf{C})	Explain AFIS And Discuss Its Advantages.	7
Q.4	(A)	How Can Soft Waste Be Controlled?	3
	(B)	Explain Briefly The Concept Of Hypothetical Mill.	4
	(C)	Explain Waste Control At Card. Also Discuss How To Optimised It. OR	7
Q.4	(A)	Enlist Steps To Improve Any One Machine Productivity	3
	(B)	How Can Yarn Appearance Be Measured?	4
	(C)	Discuss The Role Of Speed Frame With Reference To Between Bobbin Count Variation.	7
Q.5	(A)	What Is Classimate Faults	3
Q.S	` '	Blow Room And Carding Do Not Affect Within Bobbin Count Variation'. Justify The	
	(B)	Statement.	4
		Discuss Remedial Measures For Controlling Loss In Efficiency Due To Following	
	(C)	Causes In Ring Frame Department Of A Spinning Mill: (I) Waiting For Doffing (Ii)	7
		Waiting For Empty Bobbins (Iii) Idle Spindles	
		OR	
Q.5	(A)	Enlist Parameters That Prevent Yarn Hairiness	3
	(B)	Discuss Random Component Of Yarn Irregularity In Detail.	4
	(C)	Discuss Various Factors Affecting Yarn Strength.	7
