GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V- EXAMINATION – SUMMER 2016			
S	ubje	ct Code: 152904 Date: 06/05/20	016
\mathbf{S}	ubje	ct Name: Modern Yarn Production	
	•	02:30 PM to 05:00 PM Total Marks:	: 70
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		1. Attempt all questions.	
		2. Make suitable assumptions wherever necessary.	
		3. Figures to the right indicate full marks.	
Q.1	(a)	Compare yarn characteristics of Rotor & Ring spun yarn.	07
C	(b)	With a neat diagram describe the basic working sections of the Pacific	07
		Converter.	
Q.2	(a)	Discuss the features of modern Rotor Spinning machine.	07
	(b)	Discuss the advantages of Friction spinning system.	07
		OR	
	(b)	Elaborate on the processing details for Tow-to-Sliver Stretch Breaking on Turbo Stapler.	07
Q.3	(a)	Describe with neat sketch Courtauld's design Tow-to-Top Converter.	07
	(b)	Discuss developments in Air Jet Texturing.	07
		OR	
Q.3	(a)	Explain in detail about Stuffer Box Crimping.	07
	(b)	Discuss in detail with curves, the effects of Temperature and Stretch Ratio on yarn quality in Heat-Stretch zone of a Turbo Stapler.	07
Q.4	(a)	Explain principle of False twist texturing in detail.	07
	(b)	Explain in detail about Gear Crimping.	07
		OR	0=
Q.4	(a)	Discuss the remedial measures to avoid cracker formation at Ring frame.	07
~ -	(b)	Discuss the applications of Friction spun yarn.	07
Q.5	(a)	Suggest actions for reducing slub-like thick faults for P/C blend.	07
	(b)	Discuss the outstanding qualities and current applications of Air Jet Spun yarn. OR	07
Q.5	(a)	Give suggestions to tackle the problem of excessive lapping at Ring frame while processing man-mades & its blend.	07
	(b)	Discuss the factors which should be considered for the control of yarn hairiness during processing of man-mades and its blend on Ring frame.	07
