Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER • 2014

Su Ti	bject me: 1 tructio	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Compare characteristics of Ring and Rotor spun yarn. Draw a schematic diagram of the Turbo Stapler.	07 07
Q.2	(a) (b)	Write in brief bout Opening unit, Rotor and Navel of Rotor Spinning. What do you mean by Friction spinning? Discuss merits and demerits of it. OR	07 07
	(b)	Explain in detail operating principle of Wrap spinning.	07
Q.3	(a) (b)	Describe with neat sketch Courtauld's design Tow-to-Top Converter. Discuss the Variable cut unit on Pacific Converter. OR	07 07
Q.3	(a) (b)	Discuss Heat-stretch unit of Pacific Converter. Discuss in detail with curves, the effects of Temperature and Stretch Ratio on yarn quality in Heat-Stretch zone of a Turbo Stapler.	07 07
Q.4	(a) (b)	Explain principle of False twist texturing in detail. Explain in detail about Gear Crimping. OR	07 07
Q.4	(a) (b)	Discuss the remedial measures to avoid cracker formation at Ring frame. Explain in detail developments in Air Jet texturing.	07 07
Q.5	(a) (b)	Suggest actions for reducing slub-like thick faults for P/C blend. Explain how Air Jet Spinning produces quality yarn with outstanding cost performance.	07 07
Q.5	(a) (b)	OR Explain in detail about Stuffer Box Crimping. 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 07
