Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VII (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 172901 **Date: 06/05/2017**

Subject Name: Modern Spinning Technology

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.**

Q.1		Explain the technical limitation of Rotor spinning with respect to count range and micro dust accumulation.	**14**
Q.2	**(a)**	Write a short note on siro spinning system.	**07**
	(b)	Discuss important features of Spin box of modern rotor machine.	**07**
		OR	
	(b)	Elaborately explain automation on modern rotor spinning machine.	**07**
Q.3	**(a)**	Explain terms spinning in coefficient and maximum spinning time.	**07**
	(b)	Classify of the air jet spun yarn structure.	**07**
		OR	
Q.3	**(a)**	Explain fibre migration, α min and PTE in rotor spinning system	**07**
	(b)	Compare the principle of air jet and vortex spinning system.	**07**
Q.4	**(a)**	Discuss the method of production of Twilo twistless spinning process.	**07**
	(b)	With neat sketch explain working of cover spinning.	**07**
		OR	
Q.4	**(a)**	Write a note on composite spinning system.	**07**
	(b)	With neat sketch the working of DREF2 and DREF3000 friction spinning system.	**07**
Q.5		Is condensed spun yarn better than ring spun yarn? Explain with different arrangement made on drafting system.	**14**
		OR	
Q.5		Briefly explain integration of straight and hooked fibre into yarn in rotor spinning system.	**14**

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