

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2018****Subject Code:2162908****Date:04/12/2018****Subject Name:Modern Yarn Production Technologies****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.

		MARKS
Q.1	(A) Name The End Use Application Of Rotor Spun Yarns.	3
	(B) Compare The Properties Of Air Jet Spun Yarn With That Of Ring Spun Yarn.	4
	(C) Describe The Features Of Modern Rotor Spinning Machines.	7
Q.2	(A) Give The Advantages Of Siro Spun Technology.	3
	(B) Describe Rocos Spinning System Briefly With Neat Sketch.	4
	(C) Discuss The Major Limitations Of Rotor Spinning Technology.	7
	OR	
	(C) With Neat Sketch The Working Of DREF2 Friction Spinning System.	7
Q.3	(A) Give The Names Of Different Twistless Spinning Methods.	3
	(B) Describe Bobtex Spinning System With Neat Sketch.	4
	(C) Write A Short Note On Siro Spinning System.	7
	OR	
Q.3	(A) Give The Name Of Different Types Of Rotor Groove.	3
	(B) Describe Parafill Spinning System With Neat Sketch.	4
	(C) Describe The Passage Of Material On Airjet Spinning System With A Neat Sketch.	7
Q.4	(A) State The Classification Of Airjet Spun Yarn.	3
	(B) Describe Wrap Spinning System With Neat Sketch.	4
	(C) Is Condensed Spun Yarn Better Than Ring Spun Yarn? Explain With Different Arrangement Made On Drafting System.	7
	OR	
Q.4	(A) State Briefly The Disadvantage Of Condensed Yarn Spinning.	3
	(B) Compare Airjet Spinning And Vortex Spinning.	4
	(C) Describe Basic Principle Of Yarn Formation Of DREF Spinning With Neat Sketch.	7
Q.5	(A) How Quality Of Yarn Will Be Influenced On Changing The Nozzle Air Pressure Of Air Jet Spinning Machine?	3
	(B) Describe Twistless Spinning System Working With Temporary Adhesion, With Neat Sketch.	4
	(C) Describe Twistless Spinning System Working With Temporary Adhesion, With Neat Sketch.	7
	OR	
Q.5	(A) What Is Peripheral Twist Extent In Rotor?	3
	(B) Explain Fibre Migration, A Min And PTE In Rotor Spinning System With A Neat Sketch, Describe The Principle Of Yarn Formation Of Murata Vortex Spinning.	4
	(C) Describe The Principle Of Yarn Formation Of Murata Vortex Spinning.	7
