

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– III (New) EXAMINATION – WINTER 2019****Subject Code: 2132902****Date: 3/12/2019****Subject Name: Yarn Manufacturing-I****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) What are the objectives of Blowroom process?	03
	(b) Write the importance of sliver coiling mechanism used in card.	04
	(c) What is blending? Discuss about any one mixing machine used in blowroom line.	07
Q.2	(a) What are the objectives of Ginning machine?	03
	(b) With a neat sketch explain the working of Cleanomat CL-C3.	04
	(c) With a suitable sketch explain the construction and working of Saw Gin machine.	07
	OR	
	(c) With a suitable sketch explain the construction and working of Macarthy Gin machine.	07
Q.3	(a) List out any three coarse cleaning machine.	03
	(b) With a suitable diagram explain the working of Dust removal.	04
	(c) With a neat sketch explain the passage of material on Card.	07
	OR	
Q.3	(a) What are the objectives of card?	03
	(b) Discuss the different types of grinding tools used for wire point grinding.	04
	(c) Write a short note on: Grid Bar.	07
Q.4	(a) What is IGS at card?	03
	(b) What are the function of Metal extractor? Discuss Magnetic metal extractor.	04
	(c) With a suitable sketch explain the working of automatic bale opening machine.	07
	OR	
Q.4	(a) What is Tandem card?	03
	(b) Write short note on Baling and packaging.	04
	(c) With a suitable diagram explain the piano feed mechanism.	07
Q.5	(a) Define the construction of flat in carding machine.	03
	(b) What is grinding and stripping action in card?	04
	(c) Write short note on Card clothing.	07
	OR	
Q.5	(a) Define cleaning efficiency? Give the formula for cleaning efficiency of card.	03
	(b) Write a brief note on chute feed system.	04
	(c) Discuss the modern developments in carding machine with suitable figures.	07
