

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III (NEW) EXAMINATION – SUMMER 2019****Subject Code: 2132902****Date: 11/06/2019****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) State the objects of Ginning.	03
	(b) Mention the important features of Automatic Bale Opener.	04
	(c) With a suitable sketch explain construction and working of Macarthy Gin.	07
Q.2	(a) What are the objects of Blow room?	03
	(b) With suitable diagram explain construction of Trutzschler CL-C3.	04
	(c) Write a short note on: "Baling and Packing of cotton."	07
	OR	
	(c) Discuss in detail about the opening devices used in Blow room with neat sketches.	07
Q.3	(a) Define Neps. How many number of flats are used in modern card?	03
	(b) Give functions of Metal detector used in Blow room. Write in brief about Magnetic metal extractors.	04
	(c) Write a short note on Grid.	07
	OR	
Q.3	(a) What are the objects of card?	03
	(b) Explain the construction and working of Step Cleaner.	04
	(c) Explain the working principle of Chute feed System with a neat sketch.	07
Q.4	(a) List different types of card clothing. Name the type of clothing suitable for flats?	03
	(b) Write short note on: Trutzschler MCM/ MPM multiple mixer.	04
	(c) Explain piano feed mechanism with a suitable sketch.	07
	OR	
Q.4	(a) Write the objects of Autoleveller?	03
	(b) Draw the passage of material on card and label the different parts. Also draw arrows to show the direction of rotational parts in card.	04
	(c) With a neat sketch explain construction and working of Vertical Opener.	07
Q.5	(a) Write in brief about Tandem card.	03
	(b) With a neat sketch write the features of modern feed device (Unidirectional feed) used in card.	04
	(c) With suitable sketches explain carding and stripping action.	07
	OR	
Q.5	(a) Why multiple licker in rollers are used in modern card?	03
	(b) Explain Heel and Toe arrangement in card with a neat sketch.	04
	(c) What is Grinding and Stripping of card clothing? Describe grinding tools used in card.	07
