Seat No.:	Enrolment No.

Subject Code: 132902

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - III • EXAMINATION - SUMMER 2015

Date: 27/05/2015

Ti	me: (struction 1 2	. Attempt all questions.	70
Q.1	(a)	State purpose of Ginning process. Also explain in brief about "Knife Roller Gin".	07
	(b)	What are the objectives of a Blow-room? State the sequence of machines used in modern Blow-room line.	07
Q.2	(a) (b)	Discuss different Opening devices used in Blow-room. Describe the Piano Feed Regulating mechanism with suitable diagram.	07 07
	(b)	OR Discuss working and advantages of Automatic bale opener.	07
Q.3	(a) (b)	Describe construction and working of a "Multimixer". Explain in detail about "Step Cleaner".	07 07
Q.3	(a) (b)	OR State the lap defects and its remedial measures at blow room. Write short note on - "Chute feed system".	07 07
Q.4	(a) (b)	State objects of card. Also show passage of material in carding machine with neat sketch. Highlight the importance of Auto-levelers used on a card along with their	07 07
		principles. OR	
Q.4	(a) (b)	Write short note on "Card setting". Discuss metallic card clothing on card.	07 07
Q.5	(a)	What are the disadvantages of stripping by plain brush stripping roller? Discuss working of vacuum stripper with neat sketch.	07
	(b)	What is the need of grinding card clothing? Discuss various types of grinding in brief.	07
Q.5	(a)	OR Calculate the production/hr in kg. of 10 carding machines from the following data: Doffer r.p.m. = 45, doffer dia. = 27 inch, hank of sliver = 0.15 Ne, Waste Extraction = 4% & Efficiency = 90%.	07
	(b)	Discuss different features of modern carding machines.	07
