Seat No.:	Enrolment No.

Subject Code:132902

Q.5

**Q.5** 

moteknives

machine.

## **GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III EXAMINATION - WINTER 2015**

Date:18/12/2015

Subject Name: YARN MANUFACTURING I				
Time: 2:30pm to 5:00pm			Total Marks: 70	
Instructions:				
	1. 2. 3.			
Q.1	(a)	State the objectives of Ginning and Bailing and explain any one type of Ginning machine in detail.	07	
	<b>(b)</b>	Explain the factors influencing degree of opening, cleaning and loss of fibres at Blowroom	07	
Q.2	(a)	What is Carding? Explain basic processes involved in Carding. Discuss the carding action with Transfer of fibres and Heel and Toe arrangement.	07	
	<b>(b)</b>	Explain briefly the basic components of Blowroom machine with setting points.  OR	07	
	<b>(b)</b>	In which sequence are Blowroom machines arranged? Explain the working of any one machine of any one zone with a neat sketch.	07	
Q.3	(a) (b)	Explain the concept of Mixing and Blending.  Write about how the manmade fibres are processed in Blowroom department.  OR	07 07	
Q.3	(a)	Explain the use of gravity traps, metal detectors and dust separators at Blowroom department.	07	
	<b>(b)</b>	Discuss the modern developments in Blowroom department.	<b>07</b>	
Q.4	(a) (b)	Explain the features of High Production Card. Write on the metallic card clothing parameters for Lickerin, Cylinder, Flats and Doffer.	07 07	
		OR		
Q.4	(a) (b)	Write a short note on the Chute feed system.  State the card settings for cotton and polyester and discuss their effect on carding quality and waste generated.	07 07	

Explain actual draft and mechanical draft. State the relationship between them.

Also discuss the functions of moteknives and give arrangement with settings of

(a) Write on the Roller doffing devices and Coiler systems used at Carding

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(b) Discuss the latest developments at Carding machine.

**(b)** What is Tandom carding? State the advantages of Tandom carding.

07

**07** 

07

**07**