Seat No.:	Enrolment No.
Jour Mo	Emonitori No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E SEMESTER-IV EXAMINATION SUMMER-2015

Subje	ect c	ode: 142901 Date: 01/06/2015	
Subje	ect N	Name: Yarn Manufacturing - II	
Time	: 10	.30am-01.00pm Total Marks: 70	
Instructions:			
	1.	Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Describe various developments in loading arrangement at drafting system of Draw Frame.	07
	(b)	Discuss the problem of "Drafting Wave" briefly. Also suggest steps to control the problem.	07
Q.2	(a)	Describe the features of Modern Draw Frame.	07
C	(b)	Discuss the problem of Roller nip movement briefly and factors affecting it.	07
	(1.)	OR	0=
	(b)	A Drawframe is working with following data:	07
		Hank of sliver fed – 0.14, Draft – 6, Doubling – 6 Speed – 600 mts/min, Deliveries – 2	
		Calculate production of m/c in terms of kg./shift if efficiency is 90%.	
Q.3	(a)	Write objects of the comber. Also explain passage of material in comber	07
Q.S	(a)	with neat sketch.	07
	(b)	Describe in brief sequence of operations in comber. OR	07
Q.3	(a)	Write in detail (i) The Nipper Assembly & (ii) The Cylinder combs of the	07
	(1.)	combing machine.	0=
	(b)	Explain in detail influence of feed stock on combing.	07
Q.4	(a)	Explain Ribbon Lap machine in detail.	07
	(b)	Describe working of Super lap machine with neat diagram. OR	07
Q.4	(a)	Write latest developments in the combing machine.	07
	(b)	Discuss the major limitations of conventional flyer & hence describe features of modern flyer.	07
Q.5	(a)	Describe the objects of speed frame and how they are achieved on Speed	07
		frame.	
	(b)	Discuss the various developments in drafting system of speed frame which has led to shortening of spinning line. OR	07
Q.5	(a)	Describe objects, construction and working of Differential motion.	07
v.	(b)	With a neat sketch describe any one Builder mechanism on speed frame with neat sketch.	07
