

GUJARAT TECHNOLOGICAL UNIVERSITY
B.E SEMESTER-IV EXAMINATION SUMMER-2015

Subject code: 142901**Date: 01/06/2015****Subject Name: Yarn Manufacturing - II****Time: 10.30am-01.00pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. 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**
- (b) Discuss the problem of Roller nip movement briefly and factors affecting it. **07**
- OR**
- (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 with neat sketch. **07**
- (b) Describe in brief sequence of operations in comber. **07**
- OR**
- Q.3** (a) Write in detail (i) The Nipper Assembly & (ii) The Cylinder combs of the combing machine. **07**
- (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. **07**
- OR**
- 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 frame. **07**
- (b) Discuss the various developments in drafting system of speed frame which has led to shortening of spinning line. **07**
- OR**
- Q.5** (a) Describe objects, construction and working of Differential motion. **07**
- (b) With a neat sketch describe any one Builder mechanism on speed frame with neat sketch. **07**
