

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER- IV(NEW) EXAMINATION – SUMMER 2015

Subject Code: 2142901**Date:01/06/2015****Subject Name: Yarn Manufacturing - II****Time: 10:30am-1.00pm****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) What are the objects of Draw frame? Discuss operating principle of Draw frame with suitable diagram. **07**
(b) Write short note on – Top Rollers of Draw frame. **07**
- Q.2** (a) Explain different drafting arrangements of Draw frame. **07**
(b) Discuss Theory of Drafting briefly with neat sketch. **07**
- OR**
- (b) What is the role of Autoleveller at Draw Frame? Describe different types of Autolevellers briefly. **07**
- Q.3** (a) What are the objects of Comber? Show passage of material in Comber. **07**
(b) Discuss sequence of operations in comber with suitable diagram. **07**
- OR**
- Q.3** (a) Write short note on – The nipper assembly of comber. **07**
(b) Discuss influence of machine components and settings on combing. **07**
- Q.4** (a) Explain in brief about parameters influencing the combing operation. **07**
(b) Discuss noil theory of Gegauff for Forward feed. **07**
- OR**
- Q.4** (a) Explain Sliver Lap machine in detail. **07**
(b) Write short note on – Spindle and Flyer of Roving Frame. **07**
- Q.5** (a) What are the objects of Speed frame? With neat sketch, explain passage of material in Speed frame. **07**
(b) Write in brief about automation of Speed frame. **07**
- OR**
- Q.5** (a) Describe objects, construction and working of Differential motion. **07**
(b) With a neat sketch, describe any one Builder mechanism used in speed frame. **07**
