

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEM-IV Examination-Nov/Dec-2011

Subject code: 142901

Date: 25/11/2011

Subject Name: Yarn Manufacturing - II

Time: 02.30 pm -5.00 pm

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 objects of Draw frame? With neat sketch, explain operating principle of Draw frame. **07**
- (b)** Explain in detail about Roller Drafting. **07**

- Q.2 (a)** Write in detail about Drafting arrangement of Draw frame. **07**
- (b)** Discuss the problems of 1) Drafting Wave and 2) Roller nip movement. **07**

OR

- (b)** Write latest developments in Draw frame. **07**

- Q.3 (a)** With neat sketch, explain passage of material in Comber. **07**
- (b)** Describe in brief sequence of operations in comber. **07**

OR

- Q.3 (a)** Write in detail about 1) The cylinder combs and 2) Top comb of the comber. **07**
- (b)** Explain in detail influence of machine components and settings on combing. **07**

- Q.4 (a)** Explain forward feed and backward feed with suitable diagram. **07**
- (b)** Explain Sliver Lap machine in detail. **07**

OR

- Q.4 (a)** Describe working of Super lap machine with neat diagram. **07**
- (b)** What are objects of Speed frame? With neat sketch, explain passage of material in Speed frame. **07**

- Q.5 (a)** Explain in detail about important parts of Speed frame. **07**
- (b)** Describe objects, construction and working of Differential motion. **07**

OR

- Q.5 (a)** With a neat sketch describe any one Builder mechanism of speed frame. **07**
- (b)** Write in brief about automation of Speed frame. **07**
