

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV(New) • EXAMINATION – WINTER 2016

Subject Code:2142901

Date:22/11/2016

Subject Name:Yarn Manufacturing - II

Time:02:30 PM to 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	Short Questions	14
	1 Drafting process add irregularity in the fibrous strand. (True/ False)	
	2 Generally, _____ loop type autoleveller is preferred for Draw frame machine. (Open / Close)	
	3 Pressure bar is used to control _____ fibers in draw frame. (short/ long/crimped)	
	4 Combing process removes_____ fibers. (long/ short/ crimped)	
	5 Combing process is efficient to remove _____hooks.	
	6 Flyer lead type of winding is preferable for winding of cotton roving. (True or False)	
	7 The cleanness of the combed sliver _____ with feed lap thickness. (increases/ decreases)	
	8 The number of comber lap preparatory processes between card and the comber should _____	
	9 The spindle top inserts are used in roving frames to introduce _____ in the	
	10 Power consumption is lower in case of _____ leading roving frame.	
	11 Bottom rollers in draw frame are _____ rollers. (synthetic/ metallic/ square)	
	12 Top rollers in drafting system are _____ driven. (gear/ chain/frictional)	
	13 Combing cylinder in combing machine rotates _____ during the combing cycle. (intermittently/ continuously/ both side)	
	14 Generally in modern roving frame, the top rollers are loaded by _____(dead weight/ spring/ magnet)	
Q.2	(a) Explain the following word: a) Drafting b) Doubling	03
	(b) Write short note on Top Roller of Draw Frame.	04
	(c) Describe various types of drafting system arrangement at draw frame.	07
	OR	
	(c) Write short note on Drafting wave. Also suggest steps to control the problem.	07
Q.3	(a) What is the Object of draw frame?	03
	(b) Explain in briefly: Roller nip movement.	04

- (c) Explain working of Open loop and Close loop autoleveller of draw frame. **07**

OR

- Q.3** (a) Write object of comber. **03**
(b) Write short note on Combing Cylinder. **04**
(c) With neat sketch explain Forward feed and Backword Feed in Comber. **07**
- Q.4** (a) Discuss the object of speed frame. **03**
(b) Discuss the various Types of Flyers. **04**
(c) Explain in detail influence of feed stock in Combing. **07**

OR

- Q.4** (a) Explain Top Comb of Comber. **03**
(b) Explain the Passage of Comber. **04**
(c) Explain the Ribbon Lap Machine in Detail. **07**
- Q.5** (a) Define the term: Condenser. **03**
(b) Explain the Passage of Speed Frame. **04**
(c) Write Shot note on Modern Development in Comber. **07**

OR

- Q.5** (a) Write Short note on Modern Development on Speed frame. **03**
(b) Explain the Nipper Assembly in Comber Machine. **04**
(c) Explain the Flyer Top in Speed Frame. **07**
