

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV EXAMINATION – SUMMER 2016

Subject Code:142901**Date:03/06/2016****Subject Name:Yarn Manufacturing-II****Time:10:30 AM to 01:00 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) Discuss the objectives of Drawframe and how it is achieved. **07**
(b) Explain the passage of material on a Speedframe. **07**
- Q.2** (a) Explain the advantages of Combing and the working of a modern Comber with a neat sketch. **07**
(b) Write a short note on types of drafting systems. **07**
- OR**
- (b) Explain different parameters influencing combing operation. **07**
- Q.3** (a) Enlist the merits and demerits of dead weight spring and pneumatic loading arrangement in Drawframe drafting system. **07**
(b) Discuss the special features of Autolevellers given on the Drawframe. **07**
- OR**
- Q.3** (a) Discuss the problems of drafting wave and roller nip movement on Drawframe. **07**
(b) Explain the concept of ideal drafting and actual drafting. **07**
- Q.4** (a) Write on the preparation carried out of the sliver before being taken for the combing operation. **07**
(b) Discuss the factors affecting the quality of roving at Speedframe. **07**
- OR**
- Q.4** (a) Discuss the noil theory by Gegauff in detail. **07**
(b) Write a short note on flyers at Speedframe. **07**
- Q.5** (a) What are flyer lead and bobbin lead machines in speed frame? Discuss their advantages and disadvantages. **07**
(b) Discuss the latest developments in the Drawframe, Comber and Speedframe. **07**
- OR**
- Q.5** (a) State the objectives of Builder motion and explain how it is achieved on Speedframe. **07**
(b) Derive the formula for calculation of production at Drawframe, Comber and Speedframe. **07**
