

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER– I (New course)• REMEDIAL EXAMINATION – SUMMER 2015

Subject Code: 2712509**Date:15/05/2015****Subject Name: Textured Yarn Technology****Time: 10:30 am to 1:00 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** List out and discuss the factors affecting loop formation in air jet texturing. **14**
- Q.2** (a) Elaborately explain the texturing process stages by torque mechanic. **07**
(b) What are the advantages and disadvantages of conventional vapour phase heater? Suggest the remedies to overcome the disadvantages of it. **07**
- OR**
- (b) Discuss the first order and second order thermal transitions of texturing process. **07**
- Q.3** (a) Explain working of BCF-draw texturing machine. **07**
(b) Explain the role of coanada bar and water in air jet texturing process. **07**
- OR**
- Q.3** (a) What are the advantages of intermingling process? Also discuss the factors affect the intermingling process. **07**
(b) Write a note on air jet texturing nozzle. **07**
- Q.4** Which parameters are important of textured yarns to understand its behavior in fabric? Discuss the methods and tester use to test it. **14**
- OR**
- Q.4** How to measure the air jet textured yarn stability. With neat sketch explain different methods to measure it. **14**
- Q.5** (a) Explain thermodynamics of texturing process based on heat setting and texture development. **07**
(b) Give the classification friction disc type. Which one is most frequently use today and why? **07**
- OR**
- Q.5** (a) How to overcome surging in draw texturing process? **07**
(b) Why draw texturing process is economically more advantageous than other texturing processes? Also explain working of sequential draw texturing process. **07**
