

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER III (NEW)– • EXAMINATION – SUMMER 2015

Subject Code: 2132806**Date: 29/05/2015****Subject Name: Textile Manufacturing - I****Time: 02.30pm-05.00pm****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) Explain construction and working of “step cleaner”. **07**
(b) What is ginning? Explain knife roller ginning machine with diagram. **07**
- Q.2** (a) State the objects and show the passage of material through Card. **07**
(b) Describe the process of yarn formation on ring frame. **07**
- OR**
- (b) Write the short note on “Drafting and Doubling” **07**
- Q.3** (a) Explain the advantages of new spinning system. **07**
(b) Describe passage of material in Rotor Spinning machine. **07**
- OR**
- Q.3** (a) Explain the working of Dref-3 spinning system with a neat sketch. **07**
(b) With neat sketch, discuss Air jet spinning process. **07**
- Q.4** (a) Compare yarn characteristics of Rotor and Ring spun yarn. **07**
(b) Write short note – “Man made yarn production” **07**
- OR**
- Q.4** (a) Explain the passage of material through cone/cheese drum winding machine. **07**
(b) Write short note – “Texturising process” **07**
- Q.5** (a) Describe pirn winding process with suitable diagram. **07**
(b) With suitable figure explain the additive type tensioner used in winding machine. **07**
- OR**
- Q.5** (a) Explain the function & working of mechanical type of yarn clearer. **07**
(b) On drum winding machine, 80’s count cotton spun yarn wind at speed of 1000 yd/min with 85 % efficiency, calculate production of machine in kg/shift/drum. **07**
