

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEM-VII Examination-Nov/Dec.-2011

Subject code: 172901**Date: 01/12/2011****Subject Name: Modern Spinning Technology****Time: 10.30 am-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) With a neat sketch describe the principle of Yarn formation in Murata Vortex Spinning. **07**
- (b) Compare Murata Jet Spinning system with Murata Vortex Spinning system. **07**

- Q.2** (a) Describe latest developments in Rotor Spinning briefly. **07**
- (b) Discuss major limitations and problems of rotor spinning briefly. **07**

OR

- (b) Describe the parts related to fiber separation, fiber transfer and fiber collection inside spin box at rotor spinning. **07**

- Q.3** (a) Describe Principle of DREF 1 spinning system with neat sketch. **07**
- (b) Discuss the merits and demerits of Friction spinning system. **07**

OR

- Q.3** (a) Describe DREF 3 spinning system with neat sketch. **07**
- (b) Explain structure, properties and application of DREF 3 yarns. **07**

- Q.4** (a) Describe Siro spinning briefly with neat sketch. **07**
- (b) Describe Wrap spinning system briefly with neat sketch. **07**

OR

- Q.4** (a) Describe Bob tex spinning system with neat sketch. **07**
- (b) Describe Twilo spinning system with neat sketch. **07**

- Q.5** (a) Describe important features of COMFOR spinning system briefly. **07**
- (b) Describe the advantages offered by Compact spinning system with respect to yarn properties. **07**

OR

- Q.5** (a) Describe important features of ROCOS spinning system briefly. **07**
- (b) Discuss the advantages of Air jet and Vortex spinning system briefly. **07**
