

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (OLD) EXAMINATION – WINTER 2018****Subject Code: 172901****Date: 29/11/2018****Subject Name: Modern Spinning Technology****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) Write in brief about Siro spinning along with a neat sketch. **07**
(b) Explain why rotor spinning is not economically suitable to spun finer count? **07**
- Q.2** (a) Explain the working of DREF 3 and DREF 2000 friction spinning system with neat sketches. **07**
(b) Give the classification of the air jet spun yarn structure. **07**
- OR**
- (b) Describe wrap spinning system with a neat sketch. **07**
- Q.3** (a) Explain any Twistless spinning system working on principle of permanent adhesion with neat sketch. **07**
(b) Describe ROCOS spinning system with a neat sketch. **07**
- OR**
- Q.3** (a) Briefly explain integration of straight and hooked fiber into yarn in rotor spinning system. **07**
(b) Discuss the problem of rotor deposit in rotor spinning. How it will influence yarn quality in rotor spinning. **07**
- Q.4** (a) Write short note on the following: (i). Spinning in coefficient, and (ii). Maximum spinning time. **07**
(b) List out the features of G 30 ring frame machine. **07**
- OR**
- Q.4** (a) Explain how yarn properties are influenced by Compact spinning system. **07**
(b) Discuss advantages and disadvantages of hollow spindle spinning. **07**
- Q.5** (a) Describe features of Trutzschler BDT 020 spinning line. **07**
(b) Describe parafill spinning system with a neat sketch. **07**
- OR**
- Q.5** (a) What are the advantages and disadvantages of high rotor speed in rotor spinning? **07**
(b) Discuss the major limitations of air jet spinning. **07**
