

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**ME - SEMESTER-I(New course)• EXAMINATION – WINTER- 2015**

**Subject Code: 2712502****Date: 02/01/2016****Subject Name: Theory and Designing of Textile machine-I****Time: 2:30 pm to 5:00 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** Explain the latest modern development done in carding machine. **14**
- Q.2** (a) Write down the merits and demerits of chute feeding system. **07**  
(b) Discuss design developments in ring and traveler. **07**
- OR**
- (b) Explain the modern development in card wire clothing. **07**
- Q.3** (a) Why even no of machine required between card to comber and odd no of machine required between card to ring frame? **07**  
(b) Discuss the role of extra carding segment on sliver quality. **07**
- OR**
- Q.3** (a) Explain the principle of high drafting system. **07**  
(b) Explain the design changes in draw frame roller drafting system. **07**
- Q.4** (a) Explain the modern design modification in rotor spinning machine. **07**  
(b) Which lap sequence gives maximum batt strength and cohesion in comber? Explain. **07**
- OR**
- Q.4** Discuss the principle of compact spinning system and explain any two compact spinning systems. **14**
- Q.5** (a) Explain the modern development in speed frame machine. **07**  
(b) Explain the Bale management Principle. **07**
- OR**
- Q.5** State the main objects of zone III machine? Explain working of any two modern machine of zone III. **14**

\*\*\*\*\*