

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.

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|------------|---|-----------|
| 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 |
