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

| Subject Code: 2132902Date:27/05/20Subject Name: Yarn Manufacturing - ITotal Marks:Time: 02.30pm-05.00pmTotal Marks:  |            |   |          |
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| <ul> <li>Instructions:</li> <li>1. Attempt all questions.</li> <li>2. Make suitable assumptions wherever necessary.</li> <li>3. Figures to the right indicate full marks.</li> </ul> |            |   |          |
| Q.1  | (a)<br>(b) | Discuss flow of development of ginning machinery starting from charkha gin.<br>What is blending? Explain different types of blending methods.   | 07<br>07 |
| Q.2  | (a)<br>(b) | Explain following with neat diagrams:- (i) Tandem carding, (ii) Carding and<br>Stripping action.<br>Discuss in detail about the opening devices used in Blow-room with neat sketches.                   | 07<br>07 |
|  | (b)        | <b>OR</b><br>Highlight the importance of Auto-levelers used on a card along with their principles.  | 07       |
| Q.3  | (a)<br>(b) | Describe the construction and working of Knife Roller Gin.<br>Show the Flow chart of ginning Process.   | 07<br>07 |
| Q.3  | (a)<br>(b) | <b>OR</b><br>Write short note on "Tower Dryer"<br>How balling and packing operations are perform in ginning.  | 07<br>07 |
| Q.4  | (a)<br>(b) | Write short note on "Conventional bale opener and automatic bale opener.<br>Describe construction and working of Multimixer with a diagram.   | 07<br>07 |
| Q.4  | (a)<br>(b) | <b>OR</b><br>Explain the Piano feed mechanism at Scutcher of Blow room with a neat sketch.<br>Explain working of Step Cleaner with neat sketch.   | 07<br>07 |
| Q.5  | (a)<br>(b) | Explain the factors responsible for complete transfer of fibres from Licker-in to Cylinder and Cylinder to Doffer at card.<br>What is card clothing? Explain metallic card clothing in brief.           | 07<br>07 |
| Q.5  | (a)<br>(b) | <b>OR</b><br>Discuss the important modifications made at feeding device and licker-in region of<br>a modern card.<br>Why card clothing requires grinding? Explain long roller grinder with neat sketch. | 07<br>07 |

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