## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE -SEMESTER-III •EXAMINATION – WINTER 2014**

| Subject code: 132802 Date: 23-12-20   |            |   | 14        |  |
|---|------------|---|-----------|--|
| Subject Name: Elements of Textile Technology and Processing Time: 02.30 pm - 05.00 pm Total Marks: 70 |            |   | <b>70</b> |  |
| Instructions:   |            |   |           |  |
|   | 2.         | Attempt all questions.  Make suitable assumptions wherever necessary.                                   |           |  |
|   | 3.         | Figures to the right indicate full marks.   |           |  |
| Q.1   | (a)        | Explain the passage of material through plain power loom with neat sketch.                              | 07        |  |
|   | <b>(b)</b> | Enlist the objects of carding machine.  | 07        |  |
| Q.2   | (a)<br>(b) | Describe Draw frame in detail with neat sketch.  Describe combing process with neat sketch.  OR         | 07<br>07  |  |
|   | <b>(b)</b> | Show the passage of material through sizing machine.  | 07        |  |
| Q.3   | (a)        | Give detail classification of Desizing methods. Explain enzymatic desizing in detail                    | 07        |  |
|   | <b>(b)</b> | Describe shearing and cropping in detail with neat sketch. <b>OR</b>                                    | 07        |  |
| Q.3   | (a)<br>(b) | Describe open kier with neat sketch. Discuss stitching operation.                                       | 10<br>04  |  |
| Q.4   |            | Enlist different bleaching methods of cotton. Describe peroxide bleaching of cotton with its chemistry. | 14        |  |
| Q.4   |            | Give classification of singing machines. Explain each in detail with neat sketch.                       | 14        |  |
| Q.5   | (a)<br>(b) | Draw the plain and any two twill weave.  Show the passage of material through warping machine.  OR      | 07<br>07  |  |
| Q.5   | (a)        | Explain in brief about shedding and picking mechanisms of plain power                                   | 07        |  |
|   | <b>(b)</b> | loom. Write a note on mercerization.  | 07        |  |

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