

GUJARAT TECHNOLOGICAL UNIVERSITY**BE SEM-III Examination May 2012****Subject code: 132901****Subject Name: Textile Fibers****Date: 15/05/2012****Time: 02.30 pm – 05.00 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) Explain with a neat flow diagram the manufacturing of viscose rayon. 07
(b) Explain the physical and chemical properties of cotton fibre. 07
- Q.2** (a) Explain in detail the manufacture of wool fibre. 07
(b) Explain in detail the growth and production of jute fibre. 07
OR
(b) Explain in detail the manufacture of polynosic rayon. 07
- Q.3** (a) Explain in detail the chips formation of nylon -6,6 fibre. 07
(b) Explain with a neat diagram the manufacturing of cellulose acetate yarn. 07
OR
- Q.3** (a) Explain in detail the growth, production and manufacture of linen fibre. 07
(b) Explain in detail the manufacture of spun silk. 07
- Q.4** (a) Explain the physical and chemical properties of 'CUPRO'. 07
(b) Explain in detail the classification of textile fibres. 07
OR
- Q.4** (a) Explain in detail the growth and production of pineapple leaf fibre. 07
(b) Explain in detail the minor hair fibres. 07
- Q.5** (a) Explain with flow diagram the steps involved in the manufacture of acrylic fibre. 07
(b) Discuss physical and chemical properties of polyester fibre. 07
OR
- Q.5** (a) Explain in detail the minor natural fibres. 07
(b) Explain in detail the microscopic appearance of wool fibre. 07
