

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III • EXAMINATION – WINTER 2013****Subject Code: 132901****Date: 07-12-2013****Subject Name: Textile Fibers****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) How the cotton is cultivated? Enlist the different varieties of cotton. **07**
(b) State the advantages of TPA over DMT. **07**
- Q.2** (a) Discuss about the sericulture of silk. **07**
(b) Give the classification of Man-made textile fibers. **07**
- OR**
- (b) Discuss in detail about morphological structure of wool. **07**
- Q.3** (a) Explain the manufacturing process of Nylon-6. **07**
(b) Explain silk reeling and silk throwing processes. **07**
- OR**
- Q.3** (a) Give the manufacturing process of Viscose Rayon. **07**
(b) How jute is cultivated? Describe its properties. **07**
- Q.4** (a) Discuss in detail about the essential properties of Textile fibers. **07**
(b) Write notes on Cashmere and Angora fibers. **07**
- OR**
- Q.4** (a) What is Polymerization? Compare between Addition and Condensation Polymerization. **07**
(b) Explain the manufacturing process of Polyester. **07**
- Q.5** (a) Discuss about Cuticle and Lumen of cotton fibre. **07**
(b) Give the properties of Polyester fibre. **07**
- OR**
- Q.5** (a) Write a note on Milk fibre. **07**
(b) Draw neat sketches of cross-sectional shape of all natural fibres alongwith their densities. **07**
