

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 132901**Date: 10-01-2013****Subject Name: Textile Fibers****Time: 10.30 am – 01.00 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) Give the detailed classification of Textile Fibres. **07**
(b) Explain the growth, production and manufacture of cotton fibres in detail. **07**
- Q.2** (a) Explain briefly the minor hair fibres. **07**
(b) Explain in detail the physical and chemical properties of silk fibre. **07**
- OR**
- (b) Give the manufacturing process of filature silk. **07**
- Q.3** (a) Explain in detail the minor natural fibres. **07**
(b) Explain in detail the macro and micro structure of wool fibre. **07**
- OR**
- Q.3** (a) Explain in detail the growth and manufacturing process of Ramie fibre. **07**
(b) Explain in detail the growth, production and manufacture of jute fibre. **07**
- Q.4** (a) Enlist various properties of PET fibres in detail. **07**
(b) Depict different spinning techniques for Man-made fibres. **07**
- OR**
- Q.4** (a) Discuss the complete manufacturing process for PAN fibres. **07**
(b) Show with clean diagram the chips formation of Nylon 6 fibres. **07**
- Q.5** (a) Enumerate the complete manufacturing procedure for PET fibres. **07**
(b) Discuss in brief about various steps involved in manufacturing of Viscose rayon. **07**
- OR**
- Q.5** (a) Discuss the manufacturing process and various properties of Cupra-ammonium rayon. **07**
(b) Give manufacturing and properties of Saran fibres. **07**
