

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-III (OLD) EXAMINATION – WINTER 2017****Subject Code:132901****Date:14/11/2017****Subject Name: Textile Fibers****Time: 10:30 AM to 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 broad classification of textile fibers. **07**

**(b)** State the advantages and disadvantages of natural and manmade fibers. **07**

**Q.2 (a)** Explain the manufacturing of polyester fiber. **07**

**(b)** Give the cross section of cotton, acrylic and silk with their densities. **07**

**OR**

**(b)** Give the cross section of wool, polyester and nylon with their densities. **07**

**Q.3 (a)** Discuss in detail about Dry, Melt and Wet spinning methods. **07**

**(b)** Explain the morphology of wool fiber in detail. **07**

**OR**

**Q.3 (a)** Discuss in detail about cuticle and secondary wall of cotton fiber. **07**

**(b)** Explain about the spinning of viscose rayon in detail. **07**

**Q.4 (a)** Describe in detail about nylon manufacturing method. **07**

**(b)** Discuss in detail about primary wall and lumen of cotton fiber. **07**

**OR**

**Q.4 (a)** Write a note on linen fiber. **07**

**(b)** How the degumming of silk is being carried out ? **07**

**Q.5 (a)** Explain the processes of silk reeling & silk throwing. **07**

**(b)** Write a note on coir fiber. **07**

**OR**

**Q.5 (a)** Discuss in detail about essential properties of textile fibers. **07**

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