

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Subject Code: 132901

Date: 01-01-2015

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.

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|-----|-----|---|----|
| Q.1 | (a) | Give broad classification of Textile Fibers. | 07 |
| | (b) | State the advantages of natural & man-made fibers. | 07 |
| Q.2 | (a) | Discuss about the silk reeling & silk throwing processes. | 07 |
| | (b) | Give the classification of Man-made textile fibers. | 07 |
| | | OR | |
| | (b) | Discuss in detail about morphological structure of cotton. | 07 |
| Q.3 | (a) | Explain the manufacturing process of Nylon by VK-tube method. | 07 |
| | (b) | Explain silk reeling & silk throwing processes. | 07 |
| | | OR | |
| Q.3 | (a) | How the spinning of Viscose Rayon is carried out? | 07 |
| | (b) | How cotton is cultivated? Give it's properties. | 07 |
| Q.4 | (a) | Discuss in detail about the essential properties of Textile fibers. | 07 |
| | (b) | Write notes on Linen & Angora fibers. | 07 |
| | | OR | |
| Q.4 | (a) | What is Polymerization? Compare between Addition & Condensation Polymerization. | 07 |
| | (b) | Explain the manufacturing process of Polyester. | 07 |
| Q.5 | (a) | Discuss about morphology of Wool fibre. | 07 |
| | (b) | Give the properties of Polyester fibre. | 07 |
| | | OR | |
| Q.5 | (a) | Write a note on Jute fibre. | 07 |
| | (b) | Draw neat sketches of cross-sectional shape of all natural fibres along with their densities. | 07 |
