

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Subject Code: 2132901

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.

- Q.1** (a) Give comparison between natural & man-made Textile Fibers. 07
(b) State the advantages of TPA over DMT. 07
- Q.2** (a) Discuss about the Degumming of silk. 07
(b) Give the classification of Natural textile fibers in detail. 07
- OR**
- (b) Discuss in detail about general morphology of wool. 07
- Q.3** (a) Explain the manufacturing process of Acrylic. 07
(b) How one can obtain Jute fiber ? Give it's applications. 07
- OR**
- Q.3** (a) Give the manufacturing process of Viscose Rayon. 07
(b) How cotton is cultivated? Describe it's properties. 07
- Q.4** (a) Discuss in detail about the essential & desirable properties of Textile fibers. 10
(b) Write notes on Coconut fiber. 04
- OR**
- Q.4** (a) Why fibers are fibrous? Compare between Addition & Condensation Polymerization. 07
(b) Explain the Melt, Dry & Wet spinning methods. 07
- Q.5** (a) Discuss about Cuticle & Primary wall of cotton fibre. 07
(b) Give the physical & chemical properties of Polyester fibre. 07
- OR**
- Q.5** (a) Write a note on Sisal fibre. 07
(b) Draw neat sketches of cross-sectional shape of Viscose, Acrylic & Nylon along with their densities. 07
