

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III • EXAMINATION – SUMMER • 2014

Subject Code: 132904

Date: 28-05-2014

Subject Name: Textile Processing - I

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 Discuss in detail the process of gas singeing and enzymatic desizing with principle, significance and necessary sketches. **14**

Q.2 (a) Justify the suitability of pressure kier boiling process in pretreatment of cotton fabrics. **07**
(b) Describe the process of peroxide bleaching of cotton fabrics. **07**

OR

(b) Give comparison of peroxide and hypochlorite bleaching. **07**

Q.3 (a) With objects and principle of mercerization, discuss chainless pad less mercerizer. **07**
(b) Describe the process of dyeing cotton fabrics with direct dyes. **07**

OR

Q.3 (a) Describe working of yarn dyeing machine with neat sketch. **07**
(b) Justify the position of Jigger machines in textile wet processing. **07**

Q.4 (a) Explain the process of vat dyeing of cotton fabrics by exhaust method with the chemical reactions involved. **07**

(b) Differentiate between hot brand and cold brand reactive dyes. Describe the process of dyeing cotton fabrics with cold brand reactive dyes. **07**

OR

Q.4 (a) Explain the terms: % wet pick up, % shade and M: L R **07**

(b) Give the classification of coloring matter. Give table showing dyes suitable for various fibers. **07**

Q.5 Describe the process of dyeing Polyester fabrics by carrier dyeing and HTHP dyeing methods. **14**

OR

Q.5 (a) Write a note on Padding mangles. **07**

(b) Describe the process of dyeing Polyester/ cotton blend by two bath method. **07**
