

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III • EXAMINATION – SUMMER 2013

Subject Code: 132904

Date: 29-05-2013

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 (a) Explain the significance of singeing process. Enlist the methods of singeing. Describe in detail, the process of Gas singeing. **07**

(b) What is desizing and why it is needed? Describe the method of enzymatic desizing of cellulosic fabrics with its merits and demerits. **07**

Q.2 (a) Explain in detail classification of coloring matters with chart. **07**

(b) Describe any one method of oxidative desizing of cotton fabrics with its merits and demerits. **07**

OR

(b) Discuss the terms Saponification and emulsification in context to scouring. **07**

Q.3 (a) Describe the process of pressure kiering for scouring of cotton fabrics with its merits and demerits. **07**

(b) i) Write a note on Scouring of colored woven goods. **07**
ii) Explain the terms Surface tension and Wetting.

OR

Q.3 (a) What is bleaching? Enlist various bleaching agents. Describe in detail, the process of bleaching cotton fabrics with sodium hypochlorite with its merits and demerits. **07**

(b) Describe the process for bleaching of cotton fabrics with hydrogen peroxide. Compare hypochlorite and peroxide bleaching. **07**

Q.4 (a) Describe in detail application of direct dyes on cotton. **07**

(b) Describe any two after treatment for improving fastness properties of direct dye. **07**

OR

Q.4 (a) Describe in detail application of azoic dyes on cotton. **07**

(b) Explain in detail application of vat dyes on cellulosic material. **07**

Q.5 (a) Give principle, construction and working of cop & cheese dyeing machines. **07**

(b) Define following terminologies in dyeing **07**
(i)Percentage shade (ii)MLR(iii) Percentage Exhaustion

OR

Q.5 (a) What are reactive dyes? Describe the method for application of hot brand reactive dyes on cotton. **07**

(b) Give principle, construction and working of jigger dyeing machine with neat sketch. **07**
