Enrolment No.____

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

Subject Code: 132904 Subject Name: Textile Processing - I Time: 02.30 pm - 05.00 pm Instructions: Date: 29-05-2013

Total Marks: 70

07

07

- 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 07 singeing. Describe in detail, the process of Gas singeing.
 (b) What is design and why it is needed? Describe the method of anywrotic 07
 - (b) What is desizing and why it is needed? Describe the method of enzymatic 07 desizing of cellulosic fabrics with its merits and demerits.

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 07 merits and demerits.

OR

- (b) Discuss the terms Saponification and emulsification in context to 07 scouring.
- Q.3 (a) Describe the process of pressure kiering for scouring of cotton fabrics 07 with its merits and demerits.
 - (b) i) Write a note on õScouring of colored woven goodsö.
 ii) Explain the terms õSurface tensionö and õWettingö.

OR

- Q.3 (a) What is bleaching? Enlist various bleaching agents. Describe in detail, the 07 process of bleaching cotton fabrics with sodium hypochlorite with its merits and demerits.
 - (b) Describe the process for bleaching of cotton fabrics with hydrogen 07 peroxide. Compare hypochlorite and peroxide bleaching.
- Q.4 (a) Describe in detail application of direct dyes on cotton.
 - (b) Describe any two after treatment for improving fastness properties of 07 direct dye.

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

OR

- Q.5 (a) What are reactive dyes? Describe the method for application of hot brand 07 reactive dyes on cotton.
 - (b) Give principle, construction and working of jigger dyeing machine with 07 neat sketch.
