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## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII(NEW) • EXAMINATION – WINTER 2016

Subject Code:2172804 Date: 25/11/2016 **Subject Name: Garment Processing** Time: 10.30 AM to 1.00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 07 0.1 (a) Enlist various general steps involved in processing of denim garments. Give a brief comparison of garment processing with fabric processing while discussing major advantages and disadvantages of garment processing. (b) Elaborately, discuss the process of stone washing of denim 07 garments with various steps involved in process cycle. (a) Explain the use of enzymes to produce stone washing **Q.2** 07 effect on denim garments. (b) i) Discuss various problems of stone washing with 05 probable solutions. ii) Enlist, different variables which influence the quality of 02 stone washed garments. OR (b) Describe the process of enzymatic desizing of denim 07 garments in a tumble machine with the process variables affecting the quality of processed goods. 0.3 (a) Discuss the principle, process and troubleshooting involved 07 in permanganate treatment of denim garments. **(b)** Describe the process of oxidative desizing denim garments 07 and compare it with that of enzymatic desizing. Enlist various types of garment washing/dyeing machines 0.3 08 available. Describe in detail any one of them with design features, working principle, merits and demerits. Briefly explain the following terms in context with garment 06 processing. i) Fuzz removal ii) Back staining iii) Greige garments Justify the use of pigment colors in garment dyeing. **Q.4** Describe the process of garment dyeing with pigment (b) Describe the technological aspects and process of transfer 07 printing of garments. OR (a) Discuss the process and technical aspects of dyeing **Q.4** 07 Spandex verities of garments. Describe the process of garment dyeing with reactive dyes 07 **Q.4** 

using tumble dyeing machine.

- Q.5 (a) In brief explain about UV and anti microbial finishing of 07 garments.
  - (b) Discuss the principle and methods of any two types of dry processing techniques popularly used for localized fading of garments.

## OR

- Q.5 (a) Discuss in detail about various types of equipments used for pressing of garments with principle and significance and application.
  - (b) Discuss various major quality control areas in processing **07** of garments.

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