

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) - EXAMINATION – SUMMER 2017

Subject Code: 2172804

Date: 06/05/2017

Subject Name: Garment Processing

Time: 02.30 PM to 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) Describe the process of enzymatic desizing of garments using suitable machine. Also discuss the points of trouble shooting in garment desizing. **07**

(b) Elaborately, discuss the process of stone washing of denim garments with various steps involved in process cycle. **07**

Q.2 (a) Differentiate between enzymes Amylase and Cellulase. Explain with principle the process of producing worn out look using enzymes. **07**

(b) i) Discuss various problems of stone washing with probable solutions. **04**

ii) Discuss about the color removal activity of Cellulase enzymes on denims as a function of pH. **03**

OR

(b) Explain the purpose of denim bleaching. Describe the process of denim bleaching using hypochlorite treatment. **07**

Q.3 (a) Discuss the principle, process and troubleshooting involved in permanganate treatment of denim garments. **07**

(b) Describe the process of oxidative desizing denim garments and compare it with that of enzymatic desizing. **07**

OR

Q.3 (a) Discuss the technical aspects involved in neutralization step carried out after decolorization process of denim garments. **06**

(b) Enlist various types of garment washing/dyeing machines available. Describe in detail any one of them with design features, working principle, merits and demerits. **08**

Q.4 (a) Justify the use of pigment colors in garment dyeing. Describe the process of garment dyeing with pigment colors. **07**

(b) Describe the technological aspects and process of transfer printing of garments. **07**

OR

Q.4 (a) Discuss the process and technical aspects of dyeing Spandex varieties of garments. **07**

Q.4 (b) Describe the process of garment dyeing with reactive dyes using tumble dyeing machine. **07**

Q.5 (a) In brief explain about UV and anti microbial finishing of garments. **07**

- (b) Discuss the principle and methods of any two types of dry processing techniques popularly used for localized fading of garments. **07**

OR

- Q.5** (a) Discuss in detail about various types of equipments used to impart final durable press finish to garments with principle and significance and application. **07**
- (b) Discuss various major quality control areas in processing of garments. **07**
