

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII EXAMINATION – WINTER 2015

Subject Code: 172804**Date: 16/12/2015****Subject Name: Garment Processing****Time: 10:30am to 1:00pm****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) Answer the following OBJECTIVE questions: **07**
- i. Name the stones used for stone washing of denim garments.
 - ii. Expand IBST in context to denim fabrics.
 - iii. The garment prepared from grey fabric is known as _____ garment.
 - iv. Number of pockets in 'Y' pocket drum is _____.
 - v. State the main advantage of using neutral cellulase enzyme for bio-polishing.
 - vi. UV protection for skin is expressed in _____ unit.
 - vii. Name the process wherein there is a risk of MnO₂ formation.
- (b) Depict the chemistry, process and application mechanism of pigment dyeing of garments. **07**
- Q.2** (a) Give the criteria for selection of sewing threads and fitting as accessories for garments preparation. **07**
- (b) Enlist and discuss on various problems occurring during garment dyeing with their suitable remedies. **07**
- OR**
- (b) Discuss the suitability and application of reactive dyes on cotton garments with dyeing chart associated. **07**
- Q.3** (a) Give the complete techno-physical aspects associated for sand blasting of denim garments with proper instrumentation. **07**
- (b) Write in detail on transfer printing of garments. **07**
- OR**
- Q.3** (a) Discuss the mechanism of cellulase enzymes on cotton. **05**
- (b) Explain about moisture management finish applicable on sports wears. **05**
- (c) Introduce term "Garment Processing". **04**
- Q.4** (a) Describe on principle, chemistry and application method for durable press finish of denim garments with suitable chemicals and auxiliaries involved. **10**
- (b) Write a short note on 'back-staining' of denim. **04**
- OR**
- Q.4** (a) Classify UV rays and discuss their chemistry. Explain on protection of garments against UV rays involving suitable chemistry and application. **07**
- (b) Give the techno-chemical aspects associated with ozone fading of denim garments. **07**
- Q.5** (a) Enumerate various challenging factors for garment industries in India. **06**
- (b) Note down the procedure for scouring and bleaching of various feasible blended garments. **08**
- OR**
- Q.5** (a) Enlist various garment dyeing machines. Discuss on drum dyeing machine in detail. **08**

(b) Discuss the aspects of yellowing of denim garments with rectification involved if any. **06**
