

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- VIth SEMESTER-EXAMINATION – MAY- 2012****Subject code: 162805****Date: 19/05/2012****Subject Name: Technology of Finishing-I****Time: 10:30 am – 01:00 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) Answer the following **objective** questions. **10**
- i. A ----- weave is most sensible to finishing treatments.
 - ii. ----- softeners impart only temporary effect.
 - iii. What is the empirical formula of starch?
 - iv. Which of the softeners have germicidal properties?
 - v. Expand DHEU to its full form.
 - vi. State one limitation of BTCA.
 - vii. -----process imparts lustre to silk.
 - viii. Show the structure of polyvinyl acetate.
 - ix. P.H.grade PVA is more soluble than F.H. grade- True/False, justify.
 - x. -----yarns are used in trubenizing process.
- (b) Describe the finishing effects produced by different starches. **04**
- Q.2** (a) Give a critical review on perchmentization process. **07**
- (b) Describe the inherent qualities of wool and linen fabrics in context to finishing. **07**
- OR**
- (b) Describe various types of flame retardant finishes for different fibres. **07**
- Q.3** (a) Describe with suitable examples the salient features of anionic softeners. **10**
- (b) State the advantages and limitations of cationic softeners. **04**
- OR**
- Q.3** (a) Discuss various factors that influence soiling of the fabric. **10**
- (b) Write a short note on chlorine retention. **04**
- Q.4** (a) Describe the chemistry and applications different filling and weighting agents. **10**
- (b) Describe in brief the chemistry and applications of carboxy methyl cellulose. **04**
- OR**
- Q.4** Describe in detail various antimicrobial finishes. **14**
- Q.5** (a) What is difference between water proofing and water repellency? Enumerate various types of water repellent substances. Describe in detail any one in detail. **07**
- (b) Describe the inherent qualities of silk in context to its finishing. **04**
- OR**
- Q.5** (a) Write a comprehensive essay on object of finishing. **14**
