## GUJARAT TECHNOLOGICAL UNIVERSITY

BE- VI<sup>th</sup> 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** Answer the following **objective** questions. **10** (a) A ----- weave is most sensible to finishing treatments. i. ----- softeners impart only temporary effect. What is the empirical formula of starch? iii. Which of the softeners have germicidal properties? iv. Expand DHEU to its full form. State one limitation of BTCA. vi. -----process imparts lustre to silk. vii. Show the structure of polyvinyl acetate. viii. P.H.grade PVA is more soluble than F.H. grade- True/False, justify. ix. -----yarns are used in trubenizing process. х. **(b)** Describe the finishing effects produced by different starches. 04 **Q.2** Give a critical review on perchmentization process. 07 (b) Describe the inherent qualities of wool and linen fabrics in context to 07 finishing. OR Describe various types of flame retardant finishes for different fibres. 07 Describe with suitable examples the salient features of anionic softeners. 10 **Q.3** (a) State the advantages and limitations of cationic softeners. 04 **(b)** Discuss various factors that influence soiling of the fabric. **Q.3 10** (a) Write a short note on chlorine retention. 04 **(b) Q.4** Describe the chemistry and applications different filling and weighting agents. 10 Describe in brief the chemistry and applications of carboxy methyl cellulose. 04 Describe in detail various antimicrobial finishes. **Q.4** 14 What is difference between water proofing and water repellency? Enumerate Q.5 07 various types of water repellant substances. Describe in detail any one in detail. **(b)** Describe the inherent qualities of silk in context to its finishing. 04

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(a) Write a comprehensive essay on object of finishing.

**Q.5** 

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