Seat No.:	Enrolment No.

Subject Code: 162802

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION – SUMMER 2013

Date: 27-05-2013

Subject Name: Analytical Textile Chemistry-II 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. Name the two methods for determination of moisture content. ii. Name the two synthetic sizing agents. iii. What is the function mutton tallow in sizing? iv. Expand RIMI to its full form v. What is function of sequestering agents? vi. Resist salt works as agent. vii. Differentiate between NVC and active content. viii. What is the chemical name of polysol? ix. What is difference between Iodometry and Iodimetry? x. A good thickener possess % tack index. **(b)** Describe the evaluation method of Acetic Acid. 04 0.2 (a) Discuss the microscopic method for evaluation of starch. 07 **(b)** Explain, with principle, the method for evaluation of enzymatic desizing agent. 07 OR **(b)** Describe a suitable method for determination of moisture content of a sizing 07 softener. Q.3(a) Describe a method which is widely used for evaluation of wetting agents. 07 (b) Explain the significance of determination of copper number. Discuss the 07 principle involved; show the chemical reactions taking place and the reagents used. 0.3 (a) Describe the Nippon-Kayaku method for evaluation of leveling agent. 07 **(b)** Describe the testing methods to evaluate carrier and resist salt. 07 **Q.4** (a) Discuss the methods to evaluate cationic dye fixing agent. 07 **(b)** Give the methods for evaluation of NaOH and NaOCL. **07 Q.4** (a) Describe the reflectance method for determination of strength of dyes. 07 **(b)** Give the test methods for ash content and viscosity of printing thickeners. 07 0.5 (a) With principle, describe the method for quantitative evaluation of Sodium 07 Alginate. **(b)** Discuss the principle and procedure for determination of nitrogen content. 07 0.5 (a) Explain the analysis of silicone and polyethylene emulsions. 07 **(b)** Why formaldehyde content is to be determined? Describe elaborately the method for its determination.
