

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- VIth SEMESTER-EXAMINATION – MAY- 2012****Subject code: 162802****Date: 11/05/2012****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) Describe azeotropic distillation method for determination of moisture content of a sizing softener. **07**

(b) Enlist various natural and synthetic sizing adhesives. With significance explain the method to evaluate sizing adhesive for its adhesive power. **07**

Q.2 (a) Describe the test method with principle, for determination of degree of hydrolysis of PVA. **07**

(b) Explain the method to evaluate an enzymatic desizing agent. **07**

OR

(b) Describe the method for finding ionic nature of anionic and cationic surfactants. **07**

Q.3 (a) Discuss, Drave's test with significance, factors affecting and neat sketch. **07**

(b) With principle and chemical reactions explain the method for determination of copper number. **07**

OR

Q.3 (a) Describe the methods for evaluation of chelating agents EDTA and NTA. **07**

(b) Give the testing methods to evaluate dispersing agent and a carrier. **07**

Q.4 (a) Discuss the methods to evaluate cationic dye fixing agent. **07**

(b) Elaborately discuss the method for evaluation of leveling agents used for polyester dyeing with disperse dyes. **07**

OR

Q.4 (a) Describe the transmission method for determination of strength of dyes by explaining Beers- Lamberts law. **07**

(b) Give the test methods involved in general qualitative analysis of printing thickeners. **07**

Q.5 (a) With principle, describe the method for quantitative evaluation of Sodium Alginate. **07**

(b) Describe the method for determination of free formaldehyde content of finished textiles. **07**

OR

Q.5 (a) Give the methods for determination of active matter content of silicone and poly ethylene emulsion softeners. **07**

(b) Elaborately discuss the method for determination of Nitrogen content of finished textiles with the significance, principle and chemical reactions involved. **07**
