## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016 Subject Code:2162804 Date:11/05/2016 Subject Name: Technology of Printing - I Time: 10:30 AM to 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. Describe Direct style printing of Cotton using azoic colors by base printing **Q.1 07** (a) method and Naphthol printing method. Enumerate the working of roller printing machine with neat sketch. **07 (b)** Discuss the first printed resist style of printing with aniline black. **Q.2** 07 (a) Explain the colour discharge printing on cotton fabric with direct dyes with any **07 (b)** two dyes. OR**(b)** Give the basic requirements of thickener in detail. **07** Discuss the technical aspects involved with oxidizing and reducing agents in **Q.3** (a) **07** printing. (b) Describe carbonized and brasso styles of printing in detail. 07 Explain the technological aspects involved with potash-rongalite method of **Q.3 07** (a) printing vat dyes with suitable ingredients involved. Enlist different styles of printing. Describe tie & dye style of printing in detail. **07 (b)** 0.4 (a) Describe block printing in detail with necessary equipments. 07 Write a note on antidiazotates. **(b)** 07 OR Elucidate about white discharge and colour discharge on azoic colour. 07 **Q.4** (a) Discuss about white discharge and colour discharge on vat ground. 07 **(b)** 0.5 Enlist the methods to print solubilised vat dye by direct style. Discuss one (a) 10 steaming method and one wet development method in detail. Explain about acid resist on reactive print. 04 **(b)** Mention "flash ageing" process associated with reactive printing in detail. **Q.5** (a) **07** 

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Explain about rheological behavior of thickeners.

**07**