

**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.

- Q.1** (a) Describe Direct style printing of Cotton using azoic colors by base printing method and Naphthol printing method. **07**
- (b) Enumerate the working of roller printing machine with neat sketch. **07**
- Q.2** (a) Discuss the first printed resist style of printing with aniline black. **07**
- (b) Explain the colour discharge printing on cotton fabric with direct dyes with any two dyes. **07**
- OR**
- (b) Give the basic requirements of thickener in detail. **07**
- Q.3** (a) Discuss the technical aspects involved with oxidizing and reducing agents in printing. **07**
- (b) Describe carbonized and brasso styles of printing in detail. **07**
- OR**
- Q.3** (a) Explain the technological aspects involved with potash-rongalite method of printing vat dyes with suitable ingredients involved. **07**
- (b) Enlist different styles of printing. Describe tie & dye style of printing in detail. **07**
- Q.4** (a) Describe block printing in detail with necessary equipments. **07**
- (b) Write a note on antidiastates. **07**
- OR**
- Q.4** (a) Elucidate about white discharge and colour discharge on azoic colour. **07**
- (b) Discuss about white discharge and colour discharge on vat ground. **07**
- Q.5** (a) Enlist the methods to print solubilised vat dye by direct style. Discuss one steaming method and one wet development method in detail. **10**
- (b) Explain about acid resist on reactive print. **04**
- OR**
- Q.5** (a) Mention “flash ageing” process associated with reactive printing in detail. **07**
- (b) Explain about rheological behavior of thickeners. **07**

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