

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012

Subject code: 172801**Date: 26/12/2012****Subject Name: Technology of Printing-II****Time: 10.30 am - 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Answer the following **Objective** questions: **07**
- i. Differentiate Rotary screen printing machine and Flat bed screen printing machine in context to screen movement.
 - ii. Mica is used in _____ printing.
 - iii. In older days, _____ was used as binder in metallic powder printing.
 - iv. What is Glycin A chemically?
 - v. Frosting problem is more acute in printing of polyester carpets. True/False.
 - vi. Maximum temperature obtained by superheated steam is _____ °C.
 - vii. Lanaset dyes fall under the class of _____ dyes.
- (b)** Describe the direct style printing of Acrylic fibres with cationic dye. **07**
- Q.2 (a)** Explain “Melange printing” of wool in detail. **07**
- (b)** Elucidate the chemistry involved with Binders & Fixers. **07**
- OR**
- (b)** Write a note on “Metallic printing”. **07**
- Q.3 (a)** Discuss the printing of papers required for Transfer printing with various technical aspects involved. **10**
- (b)** Define “Tack”. State the techno-physical aspects involved with it. **04**
- OR**
- Q.3 (a)** Elucidate Foam printing in detail with the advantages and disadvantages involved. **10**
- (b)** Write an essay on “Pearl printing”. **04**
- Q.4 (a)** Discuss printing of Polyester using Disperse dyes by direct style of printing. **07**
- (b)** Explain direct style printing of Nylon with Metal complex dye. **07**
- OR**
- Q.4** Enumerate various fixation methods for printing of Polyester in detail. **14**
- Q.5 (a)** Describe the Disperse-Vat printing system for printing of PC blend fabric. **07**
- (b)** Enlist the printing machines used for printing fabrics in Transfer printing. **07**
- Explain with neat sketch Batch type of heat transfer printing machines elaborately.
- OR**
- Q.5** Explain Direct style of printing for silk with various classes of dyes. **14**
