

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII • EXAMINATION – WINTER • 2014****Subject Code: 172801****Date: 25-11-2014****Subject Name: Technology of Printing - 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. What is Glycin A chemically?
 - ii. Milange printing is carried out on chlorinated wool. TRUE / FALSE.
 - iii. The fixation of acid dyes on wool is done at-----pressure and-----
-- temperature.
 - iv. State few dye combinations used for printing of P/C blend.
 - v. Redox potential of zinc sulphoxylate formaldehyde is-----.
 - vi. What are fixation accelerators? When and why are they used?
 - vii. Define Tack.
 - viii. Lanazol dyes fall under the class of -----dyes.
 - ix. Name two mild oxidizing agents used in printing paste for polyester printing.
 - x. Out of Rongalite, safoline & thio urea dioxide, which is more stable to exposure to air?
- (b) Describe printing of wool with acid dyes. **04**
- Q.2** (a) Describe the process of producing Direct print on Nylon with acid dye. Discussing about the dyes, Chemical used and fastness properties. **07**
- (b) Describe the printing of Nylon with Procinyd dyes. **07**
- OR**
- (b) Discuss different printing aids used for Printing of Nylon. **07**
- Q.3** (a) Describe the printing of acrylic with cationic dyes. **07**
- (b) Describe the printing of silk with direct dyes. **07**
- OR**
- Q.3** (a) Describe the printing of wool with procilan dyes. **07**
- (b) Describe the vigourox printing method of wool. **07**
- Q.4** Explain Different types of transfer printing machines in detail with neat sketch. Also Explain mechanism of Transfer printing. **14**
- OR**
- Q.4** Describe in detail different methods of fixation in printing of polyester. **14**
- Q.5** Attempt any two of the following: **14**
- (a) Printing of P/C Blend.
 - (b) Screen making.
 - (c) Printing of CDPET with cationic dyes.
 - (d) Foam Printing.
