

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.E SEMESTER-IV EXAMINATION SUMMER-2015**

**Subject Code: 142903****Date: 05/06/2015****Subject Name: Textile Processing – II****Time: 10.30am-01.00pm****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) Enlist the printing techniques for transfer paper. Depict any two in depth. **07**  
 (b) Discuss the role of following ingredients in printing paste formulation with suitable illustrations: **07**
- i. Oxidizing agents
  - ii. Hygroscopic agents
  - iii. Acids & Alkalis
- Q.2** (a) Enumerate the objects of finishing in detail. **07**  
 (b) Explain Friction calendar with neat sketch. **07**
- OR**
- (b) With the object, explain beetling process in detail. **07**
- Q.3** (a) Bring out a description of working of roller printing machine with neat sketch. **07**  
 (b) Give a suitable recipe formulation for direct style printing of cotton textiles using direct dyes involving the technical significance and sequence. **07**
- OR**
- Q.3** (a) Explain in detail Parchmentisation process. **07**  
 (b) Explain principle and mechanism of pre-shrinking of cotton. **07**
- Q.4** (a) Differentiate between carbonized and brasso styles of printing. Discuss the techno-chemical aspects of both. **07**  
 (b) Explain the role of thickeners in printing paste formulation. Give the detailed classification of the same. **07**
- OR**
- Q.4** (a) What is delustring? Explain any one method in detail. **07**  
 (b) Explain durable press finish of cotton in detail. **07**
- Q.5** (a) Describe the working of flat-bed screen printing machine with neat sketch. **07**  
 (b) State the recipe formulation, printing sequence and different fixation methods for printing polyester fabric using disperse dyes. **07**
- OR**
- Q.5** (a) Describe flame proof finish in detail. **07**  
 (b) What is the difference between water proof and water repellent finishes? Explain water repellent finish in detail. **07**

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