

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- IVth SEMESTER-EXAMINATION – MAY/JUNE- 2012****Subject code: 142903****Date: 29/05/2012****Subject Name: Textile Processing-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** Compare fully roller printing machine, flat bed screen printing machine and rotary screen printing machine in context to 1. Limitations and possibilities of designs 2. Advantages. **14**
- Q.2** (a) Differentiate between water proof and water repellent finish. Give application method for development of water repellent finish. **07**
(b) Discuss factors affecting final print by screen printing with faults. **07**
OR
(b) Explain high temperature steamer with its principle **07**
- Q.3** (a) Describe crepe finish with construction of fabric. **07**
(b) Describe different finishing effects produced with sulphuric acid. **07**
OR
- Q.3** (a) Write note on: Flame proof finish. **07**
(b) Explain anti shrink finish with reasons of shrinkage. **07**
- Q.4** Discuss styles of printing with suitable illustrations of dyes. **14**
OR
- Q.4** What is fixation of colour? What are the different methods of fixation? Give recipe, fixation methods and conditions for the following dyes. **14**
1. Vat 2. Reactive 3. Disperse 4. Indigosol
- Q.5** (a) Describe magnetic squeegee systems in context to flat bed screen printing machine and rotary screen printing machine **07**
(b) Explain durable press finish. **07**
OR
- Q.5** (a) Discuss the properties of a good thickener and give name of suitable thickening agent for 1. Vat 2. Reactive 3. Disperse **07**
(b) State the effects of the following finishes. **07**
1. Deluster 2. Mercersing. 3. Optical brightening.
4. Silicone 5. Heat setting of polyester. 6. Peach
7. Schreiner calendaring.
