

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-IV Examination June- 2010

Subject code: 142903

Subject Name: Textile Processing-II

Date: 19 / 06 /2010

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** Describe automatic flat bed screen printing machine, with a neat sketch, in context to principle, speed, production, working, limitations and possibilities of designs and advantages. **14**
- Q.2** (a) What is finishing? What are the objects of finishing? Enlist various finishes and give classification of finishes. **07**
(b) What is calendering? Explain different types of calendering processes. **07**
OR
(b) Describe raising (napping) and peach finish. **07**
- Q.3** Explain resin finishing with mechanism of creasing, details of chemicals, auxiliaries and methods of imparting. **14**
OR
- Q.3** Explain briefly finishes obtained by the use of (i) sodium hydroxide and (ii) sulphuric acid. **14**
- Q.4** (a) Describe principle, and working of roller printing machine with a neat sketch. **07**
(b) When are oxidizing and reducing agents added in printing paste? Which chemicals are used as oxidizing and reducing agent? Why? **07**
OR
- Q.4** (a) What is steaming? What actually happens during steaming? Explain high temperature steamer with principle. **07**
(b) What are thickeners? Give name of thickeners in printing and describe properties of a good thickener. **07**
- Q.5** (a) Describe anti shrink finish with reasons of shrinkage. **07**
(b) Enlist ingredients of a printing paste. On what basis, ingredients of a printing paste are decided? Explain use of hygroscopic agent in printing. **07**
OR
- Q.5** (a) Explain pigment printing with advantages and disadvantages. **07**
(b) State basic difference between water proof and water repellent fabric with their uses. Describes method of imparting water repellent finish. **07**
