

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Regular / Remedial Examination December 2010

Subject code: 132904

Subject Name: Textile Processing –I

Date: 16 /12 /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** Classify dyes according to their applications. State the name of suitable dyes for important textile fibres. Discuss the factors affecting dyeing and precautions to be considered while dyeing. **14**
- Q.2** (a) What is desizing? Explain enzyme desizing with characteristics and process parameters. **07**
(b) Describe construction and working of a vertical kier. **07**
- OR**
- (b) Explain shearing and singeing with details of machines and type of fibres. **07**
- Q.3** (a) Explain important factors and precautions to be considered while package dyeing. **07**
(b) Describe jigger dyeing machine with a neat sketch. **07**
- OR**
- Q.3** (a) Describe jet dyeing machine with a neat sketch. **07**
(b) Describe stepwise dyeing of P/C blend fabric. **07**
- Q.4** Explain in detail the functions of a bleaching department with sequence of processes in processing department. What properties of a bleached fabric are to be tested? How? **14**
- OR**
- Q.4** Discuss Sodium hypochlorite bleaching in relation to self decomposition, storage conditions and process parameters. **14**
- Q.5** (a) Describe stepwise dyeing of Vat dyes **07**
(b) What is mercerizing? Describe chainless padless mercerizing machine with a neat sketch. **07**
- OR**
- Q.5** (a) Describe stepwise dyeing of Naphthol dyes **07**
(b) Discuss Hydrogen peroxide bleaching in relation to recipe and process parameters. **07**
