

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEM-III Examination-Dec.-2011

Subject code: 132904**Date: 17/12/2011****Subject Name: Textile Processing-I****Time: 2.30 pm -5.00 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)** Classify dyes according to their applications and state the names of suitable dyes for important textile fibres. **07**
- (b)** Explain enzyme desizing with characteristics and process parameters. **07**

- Q.2 (a)** Explain gas singeing machine with importance of singeing. **07**
- (b)** Describe package dyeing machine with important factors and precautions. **07**

OR

- (b)** Explain shade percentage, material to liquor ratio, concentration and exhaustion of a dye bath. **07**

- Q.3 (a)** Describe the dyeing method of polyester /cotton blend fabric. **07**
- (b)** Explain vat dyes with its dyeing method. **07**

OR

- Q.3 (a)** Explain reactive dyes with its dyeing method. **07**
- (b)** Explain direct dyes with its dyeing method. **07**

- Q.4 (a)** Discuss hydrogen peroxide bleaching in relation to recipe and process parameters. **07**
- (b)** Explain scouring process with types and process parameters. **07**

OR

- Q.4 (a)** Discuss sodium hypochlorite bleaching in relation to self decomposition and process parameters. **07**
- (b)** Describe construction and working of a vertical kier. **07**

- Q.5 (a)** Explain in detail functions of a bleaching department with sequence of processes in processing department. **07**
- (b)** Describe jigger dyeing machine with a neat sketch. **07**

OR

- Q.5 (a)** Explain the formation of oxycellulose and hydrocellulose with effects of acids, alkalis and oxidizing agent on cotton. **07**
- (b)** Describe winch dyeing machine with a neat sketch. **07**
