

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Remedial Examination March 2010

Subject code: 132904

Subject Name: Textile Processing-I

Date: 11 /03 / 2010

Time: 11.00 am – 01.30 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 Discuss Sodium Hypochlorite bleaching in relation to **14**
1. Self decomposition
2. Storage conditions
3. Process parameters.

Q.2 (a) Explain loose cotton dyeing with merits and demerits **07**
(b) What is dyeing? What are main objectives of a dyeing department? **07**
Classify dyes according to application. Give the name of dyes suitable for important textile fibres.

OR

(b) Describe stepwise dyeing process of Naphthol dyes. **07**

Q.3 Explain scouring process with principle, impurities removed, **14**
composition of scouring solution, processing conditions and precautions.

OR

Q.3 State and discuss Hydrogen peroxide bleaching recipe and process **14**
conditions

Q.4 Discuss factors affecting rate of dyeing and level dyeing. **14**

OR

Q.4 (a) Explain dyeing of p/c blend fabric. **07**
(b) Explain principle, construction and working of Jigger dyeing machine. **07**

Q.5 (a) Explain scouring and bleaching of coloured woven goods. **07**
(b) Describe stepwise dyeing process of Vat dyes. **07**

OR

Q.5 (a) What is singeing? Explain importance of singeing in processing **07**
department with precautions.

(b) Describe stepwise dyeing process of Reactive dyes. **07**
