

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Remedial Examination May 2011

Subject code: 132803**Subject Name: Scouring & Bleaching - I****Date: 28-05-2011****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** (a) What are Enzymes? Explain enzymatic desizing in detail with lock & key mechanism. **07**
- (b) Give detailed classification of desizing methods. Explain oxidative desizing methods in brief. **07**
- Q.2** (a) What is singeing process? Describe with neat diagram, the working of Gas singeing machines. **07**
- (b) Explain grey inspection & stitching. **07**
- OR**
- (b) Explain Shearing and Cropping in detail with neat sketch. **07**
- Q.3** (a) Describe chemicking in Jigger. **07**
- (b) Explain the function of surface active agents, solvents and chelating agents in scouring bath. **07**
- OR**
- Q.3** (a) Explain the functions of caustic soda, soda ash and sodium silicate in scouring bath. **07**
- (b) Discuss Kier boiling in detail with neat sketch. **07**
- Q.4** Explain Vaporloc system for continues scouring & bleaching process with neat diagram. **14**
- OR**
- Q.4** Explain construction and working of J-box in detail with neat sketch. **14**
- Q.5** (a) Describe the scouring of coloured woven fabrics. **07**
- (b) Explain in brief the object of oxidative treatments. **07**
- Q.5** Explain in detail, the effect of pH on the stability of sodium hypochlorite **14**
