

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-IV Examination June- 2010

Subject code: 142804

Subject Name: Scouring & Bleaching-II

Date: 22 /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** (a) Enumerate various application of caustic reduction and aminolysis of polyester 07
(b) Describe various technical aspects of peracetic acid bleaching. 07
- Q.2** (a) Describe bleaching of nylon and acrylic in detail. 07
(b) Give a brief account of surface modification of polyester by amine treatment and explain the reactivity of amines. 07
- OR**
- (b) Discuss the effect of treatment temperature and time on caustic reduction of polyester. 07
- Q.3** (a) Describe semi mercerization in detail. 07
(b) Discuss mercerization of various blends. 07
- OR**
- Q.3** (a) Explain effect of different alkalis on mercerization with neat chart. 07
(b) Discuss various factors affecting the luster of mercerized cotton in detail. 07
- Q.4** Describe chain fabric mercerizing machine in detail with neat sketch. 14
- OR**
- Q.4** Describe chainless fabric mercerizing machine in detail with neat sketch. 14
- Q.5** Describe various methods of scouring of loose wool in detail. 14
- OR**
- Q.5** (a) Write short note on hot mercerization. 07
(b) Write short note on caustic recovery. 07
