

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV • EXAMINATION – SUMMER 2013

Subject Code: 142804**Date: 19-06-2013****Subject Name: Scouring and Bleaching II****Time: 10:30am – 01:00pm****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) Answer the following Objective questions **10**
- i The unit for Mercerizing solution concentration is _____.
 - ii What is crabbing of Wool?
 - iii Give few Examples of Non Crysilic wetting agents.
 - iv What is aminolysis of Polyester?
 - v Define axial ratio.
 - vi Name the natural impurities present in Jute.
 - vii _____ gum is present in raw silk.
 - viii Name a catalyst used for polyester weight reduction.
 - ix What is the object of mercerization?
 - x Define caustisization.
- (b) Describe Scouring and Bleaching of Nylon. **04**
- Q.2** (a) Discuss in detail about Mercerizing wetting agents. **07**
- (b) Describe Hot mercerization in detail. **07**
- OR**
- (b) Describe yarn mercerization in detail **07**
- Q.3** Describe Chainless mercerizing machine with neat sketch. **14**
- OR**
- Q.3** Enlist different methods of scouring of wool. Describe each in detail. **14**
- Q.4** Discuss any Two in detail **14**
- (i) Carbonization of wool
 - (ii) Degumming of silk
 - (iii) Scouring and bleaching of Acrylic
- OR**
- Q.4** Describe mechanisms and method of polyester weight reduction. **14**
- Q.5** (a) Describe scouring and bleaching of silk. **07**
- (b) Write a note on problems and its remedies in mercerization. **07**
- OR**
- Q.5** Describe Caustic recovery in detail with neat sketch **14**
