Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - SUMMER • 2015

Subject Code: 162803 Date:08/05/2 Subject Name: Chemistry and application of Textile Auxiliaries)15		
Ti	Time: 10.30AM-01.00PM Instructions: Total Marks		70	
		Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1		Give the classification of anionic surfactants. Discuss the chemistry, properties and application of two major classes with suitable examples.	14	
Q.2	(a) (b)	Discuss the chemistry and applications of phosphate esters. Explain in detail chemistry and application of Mild Oxidizing agents. OR	07 07	
	(b)	Discuss chemistry and application of Silicone Surfactants.	07	
Q.3		Explain the theory of surface activity and hydrophilic-lyophilic balance OR	14	
Q.3		Describe Various classes of Cationic surfactants. Discuss with suitable examples any two popular classes of the same.	14	
Q.4		Discuss any Two in detail (i) Angle of Contact (ii) Oxidizing agent (iii) De-foaming agents OR	14	
Q.4		Describe the chemistry, properties and application of Non-ionic surfactants.	14	
Q.5		Discuss any Two in detail (i) Cross-linking agents (ii) Migration inhibitors (iii) Dispersing agents	14	
~ -		OR		
Q.5		Discuss any Two in detail (i) CMC (ii) Amphoteric Surfactants (iii) Sequestering agents	14	
