

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE SEM-VI Regular Examination May 2011**

**Subject code: 162803**

**Subject Name: Chemistry and Applications of Textile Auxiliaries**

**Date: 19/05/2011**

**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.

<b>Q.1</b>	(a) Explain in detail Amphoteric surfactants.	<b>07</b>
	(b) Explain Cat-ionic Dye fixing agents in detail.	<b>07</b>
<b>Q.2</b>	(a) Discuss in brief – Phosphate Esters.	<b>07</b>
	(b) Explain Quaternary Ammonium Salts.	<b>07</b>
	<b>OR</b>	
	(b) Explain- Alkane Sulphonates	<b>07</b>
<b>Q.3</b>	(a) Explain- Polyol surfactants.	<b>07</b>
	(b) Describe the group Basic Nitrogen joins directly to the hydrophobic part.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	Explain Chemistry, Properties and Applications of Sodium salts of Fatty acid.	<b>14</b>
<b>Q.4</b>	(a) Explain Dispersing and Sequestering agents.	<b>07</b>
	(b) Explain in brief Migration inhibitors.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Explain Mercerizing wetting agents in brief.	<b>07</b>
	(b) Explain Leveling agents in acid dyeing with Nylon.	<b>07</b>
<b>Q.5</b>	(a) Discuss Mildoxidising agents.	<b>07</b>
	(b) Elaborate Emulsification in brief.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	Describe Roll of a Carrier in Polyester dyeing.	<b>14</b>

\*\*\*\*\*