## GUJARAT TECHNOLOGICAL UNIVERSITY BE SEMESTER- 1<sup>st</sup> / 2<sup>nd</sup> (SPFU) EXAMINATION – WINTER 2016

Subject Code: BSC001Date:21/0Subject Name: CHEMISTRY			/2017	
Tir	ne:1 ructio 1. 2.	0:30 AM TO 1:30 PM Total Marks: 7	70	
Q.1	(a)	Write a note on physical properties of metal.	07	
	(b)	What do you understand by corrosion? Differentiate between dry and wet corrosion.	07	
Q.2	(a) (b)	<ul><li>What is hardness? Write the difference between:</li><li>(i) Temporary and permanent hardness (ii) Hard and soft water</li><li>Write a note on disadvantages of using hard water for domestic and industrial purpose.</li></ul>	07 07	
Q.3	(a)	Giving suitable example explain, different type of polymerization processes.	07	
	(b)	Give a detailed classification of fuel and mention of characteristics of good fuel.	07	
Q.4	(a)	Write a short note on optical microscopy.	07	
	(b)	What is fermentation? Explain industrial applications of fermentation.	07	
Q.5	(a)	What is natural rubber? How it differs from synthetic rubber?	07	
	(b)	Explain refining of petroleum giving a neat and well labeled diagram.	07	
Q.6	(a)	State principles of "green Chemistry".	07	
	(b)	What are the characteristics of drinking water? How water is purified for drinking purpose?	07	
Q.7	(a)	What are alloys? Give example of ferrous and non ferrous alloys and state the importance of alloys.	07	
	(b)	Explain cold lime soda process of softening water.	07	

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