Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-III • EXAMINATION - WINTER • 2014** 

Subject Code: 2132101		Code: 2132101 Date: 18-	Date: 18-12-2014	
_	: 02	Name: Elements of Metallurgy 3.30 pm - 05.00 pm Total Ma s:	arks: 70	
	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a) (b)		07 07	
Q.2	(a)	<u>.                                      </u>	07	
	<b>(b)</b>	applications What is imperfection in solids? Discuss with neat schematics different crystals imperfections in brief  OR	02+05	
	(b)		04+03	
Q.3	(a) (b)		07 07	
Q.3	(a)	<u> </u>	07	
	(b)		07	
Q.4	(a)	What is composite materials? Give classifications of different composite materials	07	
	<b>(b)</b>	1	03+ 02+ 02	
		OR		
Q.4	(a)	What is corrosion? List down various techniques to prevent corrosion & Explain any one in brief.	03 + 04	
	(b)	- · · ·	07	
Q.5	(a) (b)		07 02+ 03+ 02	
		OR		
Q.5	(a)	What are polymers? Differentiate between thermosetting and thermoplastic polymers	07	
	<b>(b)</b>		07	

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