Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER- I (New course) • REMEDIAL EXAMINATION - SUMMER 2015

Subject Code: 3715205 Subject Name: Embedded C Time: 10:30 am to 1:00 pm Instructions: Date:18/			Date:18/05/2015	
		rks: 70		
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Explain about Development life cycle of a C program List out the K&R and ANSI C standards for programming languages.	07 07	
Q.2	(a) (b)	Write on integral Floating Points Explain command line arguments with an example program OR	07 07	
	(b)	Explain inline functions with an example program	07	
Q.3	(a)	Discuss the different phases of converting source code into executable binary image	07	
	(b)	What are the Environment variables? and Explain them OR	07	
Q.3	(a) (b)	Write a C program that demonstrates use of call by value and call by reference Write a program that uses string operations. Implement own logic for string operations Explain about string tables.	07 07	
Q.4	(a) (b)	Compare shallow copying and deep copying with suitable Example Write about bit manipulations	07 07	
Q.4	(a)	OR Discuss use of unions with an example program	07	
~··	(b)	Discuss dynamic memory allocation with an example program	07	
Q.5	(a) (b)	Explain the allocation of the dynamic memory using malloc Explain the allocation of the dynamic memory using realloc. OR	07 07	
Q.5	(a) (b)	Write notes on Analysis of memory leaks and heap errors using valgrind. Explain about GNU tools -GCC, nm, objdump	07 07	
