Seat No.:	Enrolment No
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Subject Code: 2610001

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-I • EXAMINATION – WINTER • 2014

Date: 23-12-2014

Ti	me: 1 tructio 1.	Name: Fundamentals of Programming 0:30 am - 01:00 pm Total Marks: 70 ns: Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)	What do you mean by structured Programming? Describe the properties of Structured programming. Also explain the Process of programming.	07
	(b)	What is Function? Why function is needed? Explain various component of function with its syntax.	07
Q.2	(a)	List out the different Storage classes available in C programming Language? Discuss all the storage classes with example.	07
	(b)	Discuss the Process of compilation with its architecture in detail OR	07
	(b)	Distinguish between the following: (i) do-while and while loop (ii) break and continue	07
Q.3	(a)	How can we manage the string in C? Explain various string manipulation functions available in C Language with example.	07
	(b)	What is Dynamic Memory allocation? Explain various function used for Dynamic memory Allocation with suitable example. OR	07
Q.3	(a) (b)	Explain the concept Pointer to an Array and Array of Pointer with example. What is structure? How can we declare a structure and structure variable? How can we access the member of structure? Give suitable example.	07 07
Q.4	(a)	Write a C program using pointer to read an array of integers and print its elements in reverse order.	07
	(b)	Write a short note on following: (i) Enumerated data types. (ii) Union. OR	07
Q.4	(a)	What do you mean by random access to files of record? Explain the functions which are used for random access to files of record with example.	07
	(b)	What is bitwise operator? Describe the Bitwise operators used in C in detail.	07
Q.5	(a)	Define Preprocessor directive. Discuss any three preprocessor directives with suitable example.	07
	(b)	What do you mean by Singly link list? Write a C program to create a singly link list of integer.	07
0.5	(-)	OR	07
Q.5	(a)	Write a C program to copy one file in to another file using command line arguments. Discuss file opening modes used in C programming language. Write a C	07
	(b)	Discuss file opening modes used in C programming language. Write a C program to append data in existing given file.	07
