Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- I EXAMINATION - SUMMER 2016

Subject Code: Fundamentals of Programming Subject Name: 2610001 Time: 02.30pm to 05.00 pm			Date: 04-05-2016 Total Marks: 70	
Ins	tructio			
	1. 2. 3.	Figures to the right indicate full marks.		
Q.1	(a)	Write down various symbols of flowchart and draw a flow chart to find out maximum among three numbers.	07	
	(b)	Explain following terms with suitable example 1. Identifier	02	
		2. Symbolic Constant	02 02	
		3. Ternary operator	03	
Q.2	(a)	Differentiate between following 1. Entry control loop and Exit Control loop	04	
		2. Break and continue	03	
	(b)	Write a program to print all prime numbers between 1 and 100. OR	07	
	(b)	Write a program to print following pattern 1	07	
		23		
		456 78910		
Q.3	(a)	What is an array? Write down the code snippet to initialize one and two dimensional array.	07	
	(b)	Explain all storage class in detail. OR	07	
Q.3	(a)	Explain dynamic memory allocation in detail.	07	
0.4	(b)	Write a program to find product of two 3×3 Matrices.	07	
Q.4	(a)	Differentiate between following 1. Call by value and call by reference	04	
		2. Formal parameter and actual parameter	03	
	(b)	Write program to convert a string in to upper case without using built in function.	07	
0.4	(a)	OR What is Pointer? Write down adventages disadvantages and applications of	07	
Q.4	(a)	What is Pointer? Write down advantages, disadvantages and applications of pointer.		
	(b)	Differentiate between Structure, union and enum with proper example	07	
Q.5	(a) (b)	Differentiate between Recursion and iteration with suitable examples. Explain various file opening modes in detail.	07 07	
	(10)	OR	07	
Q.5	(a)	Write down the pros and cons of the Linked list? Write a program to add node at last in the singly linked list.	07	
	(b)	Write short note on following		
		1. Bitwise operator	04	
		2. Command line arguments ***********************************	03	