Sea	ıt No.:	Enrolment No		
		GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- 1 EXAMINATION - WINTER 2018		
	•		Date: 01-01-2019	
Ti	•	Name: Fundamentals of Programming-1 0.30 am to 1.00 pm Total Marks: 70	)	
1115		Attempt all questions.		
	2.			
		Figures to the right indicate full marks.		
Q.1	<b>(a)</b>	Attempt the following questions:	0'	
-		1) What is array variable?		
		2) What is local variable?		
		3) What is data type?		
		4) Differentiate between $j=++i$ ; $j=i++$ ;		
		5) What is the return data type of scanf()?		
		6) Define token.		
		7) What is type casting?		
	<b>(b)</b>	Define the terms: float, typedef, for(), while()	0	
Q.2	<b>(a)</b>	Write a note on storage representation of Array with example.	0	
×	(b)	Differentiate in between Entry control loop and Exit Control loop.	<b>O</b>	
	()	OR OR	-	
	<b>(b)</b>	Explain Logical operators and relational operators available in C using example.	0	
Q.3	<b>(a)</b>	Differentiate between Recursion and iteration with suitable examples.	0	
	<b>(b)</b>	Write a C program to read a 2-D array and find out the minimum element and its'	0	
		position.		
		OR		
Q.3	(a)	What are strings? List and Explain operations that can be performed on strings with example.	0	
	<b>(b)</b>	Develop a C program to display 2, 4, 6, 8 series. Last number of the series, is	0	
		accepted as an input.		
Q.4	<b>(a)</b>	Write a short note on storage classes available in C.	0	
<b>Y</b> .7				
	<b>(b)</b>	Explain with diagram of compilation and execution process of C program.	0	
0.4	$(\cdot)$	OR	•	
Q.4	(a)	Write a program to read a string and to reverse that string without using in-built function.	0	

- function. (b) Explain arithmetic operators available in C using example.
- Q.5 Develop a C program to print following pattern. Number of rows is given as an 07 (a) input.
  - 1 12
  - 123
  - 1234
  - 12345
  - (b) Write a brief account on structure of C program with proper example. 07

OR

- Q.5 **(a)** Develop a program which accepts a number and power which computes X<sup>n</sup>. 07 Using function to compute this X<sup>n</sup> which takes two parameter (X, n) in the function.
  - (b) Write a short note on data types in C.

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