Seat No.: \_\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

MCA - SEMESTER - I • EXAMINATION - SUMMER 2018

Su	bject	Code: 3610001 Date: 19-May-2018	
Su	bject	Name: Fundamentals of Programming-1	
Tiı	<b>me:</b> 0	2.30 pm to 5.00 pm Total Marks: 70	
Inst	tructio		
Q.1	1. 2. 3. (a)	· · ·	07
		<ul> <li>2) What is type casting?</li> <li>3) What is the return data type of scanf()?</li> <li>4) What is dangling else problem?</li> <li>5) Why should we use i++ rather than i=i+1?</li> <li>6) Define array.</li> <li>7) What is function?</li> </ul>	
	<b>(b)</b>	Which are the control structures available in C? Explain any one with example.	07
Q.2	(a) (b)	<ol> <li>Break statement Vs Continue statement</li> <li>Prefix operators Vs Postfix operators</li> <li>Explain Logical operators and relational operators available in C using</li> </ol>	04 03 07
	(10)	example.  OR	07
	<b>(b)</b>	Write a C program to check whether given number is prime number or not.	07
Q.3	(a) (b)	Write a short note on storage classes available in C.  Explain Call by value and Call by reference with suitable examples.  OR	07 07
Q.3	(a) (b)	Explain the concept of global variable and local variable with suitable example. Write a C program to read a matrix and find out the maximum element and its position.	07 07
Q.4	(a)	<ol> <li>Differentiate between actual parameters and formal parameters</li> <li>Differentiate between L- value and R- value</li> </ol>	04 03
	(b)	Write a program to accept a string (one word) from user and display it in triangle. e.g. INDIA will display as follows  I IN IND INDI INDI INDI INDIA	07
0.4		OR	0.
Q.4	(a) (b)	Write a C program to convert given decimal number to its binary equivalent. "Functions make C programming modular" Comment on this statement. What is the difference between inbuilt function and user dined function?	07 07
Q.5	(a) (b)	Explain scanset conversion facility used with scanf() with proper example. Explain initialization of one dimensional arrays, two dimensional arrays and strings with example.	07 07
		OR	
Q.5	(a)	Explain following functions: (1) strcmp() (2) strcat() (3) strncat() (4) strlen()	07
	<b>(b)</b>	Write a program to read a string and rewrite it in alphabetical order.	07

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