Reg. No.:					

Question Paper Code: 51107

B.E. / B.Tech. DEGREE EXAMINATION, DECEMBER 2015

First Semester

Civil Engineering

15UCS107 - COMPUTER PROGRAMMING

(Common to ALL branches)

		(Regulation 2	015)			
	Duration: Three hours			Maximum: 100 Marks		
		Answer ALL Qu	estions			
		PART A - (10×1)	10 Marks)			
1.	. In how many generations a computer can be classified?					
	(a) 3	(b) 4	(c) 5	(d) 6		
2.	Which of the following me	mory is volatile?				
	(a) RAM	(b) ROM	(c) EPROM	(d) PROM		
3.	3. The C language consists of number of keywords.					
	(a) 32	(b) 40	(c) 24	(d) 56		
4.	The format identifier '% i'	is also used for	_ data type.			
	(a) char	(b) int	(c) float	(d) double		
5.	Which of the following car	nnot be checked in a s	witch-case stater	nent?		
	(a) char	(b) int	(c) float	(d) enum		
6.	The loop statement termina	ated by a semi colon i	s			
	(a) do-while loop	(b) for loop	(c) while loop	(d) none of the above		

7.	If an array is used as function argu	ument, the array is passed				
	(a) by value (1	(b) by reference				
	(c) by name (d	d) the array cannot be used as a	a function argument			
8.	The name of all functions end with	n a				
	(a) pair of parenthesis	(b) semicolon				
	(c) braces	(d) colon				
9.	To access a structure element using	g a pointer, oper	ator is used			
	(a) dot (.) (b) pointe	er (&) (c) pointer (*)	(d) arrow (\rightarrow)			
10.	. A pointer variable can be					
	(a) passed to a function	(b) changed within	(b) changed within the function			
	(c) return to a function	(d) can be assigned	an integer value			
	PART	Γ - B (5 x 2 = 10 Marks)				
11.	. Define Flowchart.					
12.	. Define constants in C. Mention its	types.				
13.	. Differentiate whiledo and dowh	ile statement in C.				
14.	. What is an array? Give an example	e.				
15.	. Write the difference between Struc	cture and Union.				
	PART	$^{\circ}$ - C (5 x 16 = 80 Marks)				
16.	. (a) Explain about the basic compu	uter organization with a neat di	agram. (16)			
		Or				
	(b) (i) Define computer and list of	out its characteristics.	(4)			
	(ii) What is an algorithm? W	Vrite an algorithm to compute	e factorial of a number n			
	where $n > 0$.	1	(12)			
17.	. (a) Explain in detail about the bas	sic data types used in C.	(16)			
		Or				
	(b) Explain about variables, const	ants and its types.	(16)			
18.	. (a) (i) Write a C program to prin	t Fibanocci series of a given nu	imber. (8)			

		(ii) Write a C program to find the factorial of a given number.	(8)
		Or	
	(b)	Describe the statements for decision making, branching and looping.	(16)
19.	(a)	Define arrays. Explain the array types with an example program for each type.	(16)
		Or	
	(b)	(i) State the difference between call by value and call by reference.	(8)
		(ii) Define recursion in C. Explain the concept of recursion with example.	(8)
20.	(a)	What are pointers? When and why they are used? Explain in detail with an exprogram.	xample (16)
		Or	
	(b)	(i) Explain in detail about the most commonly used dynamic memory allefunctions.	ocation (10)
		(ii) What is a preprocessor? Explain its features.	(6)