Reg. No.:					

Question Paper Code: 41206

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

First Semester

Civil Engineering

14UCS106 - COMPUTER PROGRAMMING

(Common to ALL Branches)

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

	Answer A	LL Questions						
	PART A - $(10 \times 1 = 10 \text{ Marks})$							
1.	A computer assisted method for the recording and analyzing of existing or hypothetical systems is							
	(a) Data transmission	(b) Data flow						
	(c) Data capture	(d) Data processing						
2.	What difference does the 5th generacomputers?	ation computer have from other generation						
	(a) Technological advancement	(b) Scientific code						
	(c) Object Oriented Programming	(d) All the Above						
3.	Which of the following are token in C?							
	(a) Keywords (b) Variable	s (c) Constants (d) All the Above						
4.	The case keyword is followed by							

(b) integer values (c) character values (d) both b and c

(a) float values

5.	If an array is used as fun	ection argument, the arra	y is passed as					
	(a) By value	(b) By reference	(b) By reference					
	(c) By name	(d) The array cannot be passed as function argument						
6.	Which of the following is	is not a built in functions	s in C?					
	(a) getchar	(b) putchar	(c) gets	(d) get_ select_str				
7.	malloc () function used i	in dynamic allocation is	available in which h	neader file?				
	(a) stdio.h (b) stdli	b.h (c) conio.h	(d) mem.h	ı				
8.	What is (void*)0?							
	(a) Null pointer	(b) Void pointer	(c) New pointer	(d) All the Above				
9.	Given the statement, ma	ruti.engine.bolts=25, wh	nich of the following	; is true?				
	(a) Structure bolts is nested within structure engine(b) Structure engine is nested within structure maruti(c) Structure maruti is nested within structure engine(d) Structure bolts is nested within structure bolts							
10.	calloc () takes nun	nber of arguments.						
	(a) 1	(b) 2	(c) 3	(d) 4				
		PART - B (5 x 2 = 1	0 Marks)					
11.	Differentiate between pr	imary memory and seco	ndary memory.					
12.	What is the importance of	of keywords in C.						
13.	Give any two functions	related to string handling	j.					
14.	Distinguish between Cal	ll by value and Call by re	eference.					
15.	Give some examples for	preprocessor directives						
		PART - C (5 x $16 = 8$	30 Marks)					
16.	(a) Elaborate on differe		ifications of comput Or	rers. (16)				
	(b) (i) Explain the vario	us phases involved in pr	oblem solving.	(8)				

		(11) With suitable example explain the need for flowchart.	(8)
17.	(a)	(i) Write a C program to reverse digits of a given number	(8)
		(ii) Explain about various looping statements in C and compare them.	(8)
		Or	
	(b)	Describe the different types of operators available in C.	(16)
18.	(a)	(i) Write a program using pointers to read an array of integers and print its ele	ements
		in ascending order.	(8)
		(ii) With suitable examples explain the string handling functions.	(8)
		Or	
	(b)	Write a C program to find max / min of an array and perform linear search.	(16)
19.	(a)	Explain function prototypes with syntax and examples.	(16)
		Or	
	(b)	(i) Explain about (1) the rules for pointers arithmetic (2) Arrays of pointers.	(8)
		(ii) Write a C program to simulate a simple storage mechanism like either queue using dynamic memory allocation methods.	stack or (8)
20.	(a)	Write a C program for library management using structures and unions.	(16)
		Or	
	(b)	Write a C program for payroll application using structures with 'e' or "e structure variable.	[10]" as (16)