Reg. No.:					

(d) The array cannot be passed as function argument

Question Paper Code: 41216

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

First Semester

Civil Engineering

14UCS106 – COMPUTER PROGRAMMING

(Common to ALL branches)

	(Collin	ion to ALL branches)	
	(R	Regulation 2014)	
Duration: Three l			Maximum: 100 Marks
	Answ	ver ALL Questions.	
	PART A	$x - (10 \times 1 = 10 \text{ Marks})$)
1. Which of the fo	ollowing is responsible	for controlling all the	operations of all other units of a
computer syste	m.		
(a) CPU	(b) ALU	(c) GPU	(d) MU
2 is pro	gramming analysis tool	that is used for plann	ing program logic.
(a) Algor	ithm (b) Flow chart	(c) Pseudo code	(d) High level languages
3. Which of the	following is not a keyv	vord of 'C'?	
(a) auto	(b) register	(c) int	(d) function
4. The statemen	t that transfers control t	to the beginning of the	e loop is called
(a) Break	(b) Exit	(c) Continue	(d) Goto
5. If an array is	used as function argum	ent, the array is passe	d as
(a) By va	lue	(b) By reference	

(c) By name

6.	Which header f	file is essential for	using strcmp() fur	ection?	
	(a) string.h	(b) strings.h	(c) text.h	(d) strcmp.h	
7.	Which of the f	Collowing operation	on cannot be perfor	med on pointers in C?	
	(b) Subtrac(c) Subtrac	on of two pointers etion of a number etion of one pointer of a number to a	er from another		
8.	malloc () funct	ion used in dynan	nic allocation is ava	nilable in which header file?	
	(a) stdio.h	(b) stdlib.h	(c) conio.h	(d) mem.h	
9.	Given the state	ment, maruti.engi	ne.bolts=25, which	of the following is true?	
	(b) Structur (c) Structur	re engine is nested re maruti is nested	within structure engal within structure research within structure engal within structure bo	naruti ngine	
10.	calloc () takes	number of a	rguments.		
	(a) 1	(b) 2	(c) 3	(d) 4	
		PAF	$RT - B (5 \times 2 = 10)$	Marks)	
11.	Define: Algori	ithm and Pseudo c	code.		
12.	What is meant	by Enumerated da	ata type?		
13.	Give any two f	functions related to	o string handling.		
14.	Distinguish bet	ween Call by valu	ue and Call by refe	rence.	
15.	Give some example of the control of	mples for preproc	essor directives.		
		PAR	$T - C (5 \times 16 = 80)$	Marks)	
16.	(a) Elaborate of	n different genera	tions and classifica Or	tions of computers.	(16)
	(b) (i) Explain	the various phase	es involved in prob	em solving.	(8)
	(ii) With su	uitable example ex	xplain the need for	flowchart.	(8)

17.	(a)	(i) What are Operators and operands? Mention various types of operators in C	. (10)
		(ii) Write a C program to find given year is leap year or not.	(6)
		Or	
	(b)	(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)
18.	(a)	(i) Write a program using pointers to read an array of integers and print its eleascending order.	ements in (8)
		(ii) With suitable examples explain the string handling functions.	(8)
		Or	
	(b)	(i) Write a C program to find whether the given word is palindrome.	(8)
		(ii) Write a program to add two N x N matrices.	(8)
19.	(a)	(i) Write a C program to print Fibonacci series using recursive functions	(8)
		(ii) Explain about different parameter passing methods in C with example.	(8)
		Or	
	(b)	Discuss about dynamic memory allocation in detail.	(16)
20.	(a)	What is the difference between structures and unions? With suitable e	xamples
		substantiate the above point.	(16)
		Or	
	(b)	(i) Explain in detail on preprocessor directives in C.	(10)
		(ii) State the need and operation of union with suitable example.	(6)