First/Second Semester B.E. Degree Examination, December 2011 Computer Concepts and C Programming

Time	: 3 h	rs.							Ma	ax. Marks:100
Note:	2. A	nswer	FIVE full quall objective to objective t	type qu	estions on	ly in OMR	sheet po	ige 5 of th		nswer booklet. be valued.
					<u>P</u>	ART - A				
1.	a.		t the correct a							(04 Marks)
		,	he general nar	_	- '	•			_	
) Software) Hardwa	,	Firmwa	re D)	Co	mputer ware
		•	byte contains					•		_
) 12	. B)) 16	D)	3:	2
		-	hich of these	is not a	ın example					
) Utilities			•	Operation			
) Floppy disk		c :	,	Device			
			Which of these		a part of in					
) Data sharin	•		•	Data co			
	h) Data stora	_	annaintad v	,	Data ou	*		ele and explain
	υ.	them.	on the various	steps a	SSUCIAICU V	Man mic min	nination j	hrocessmi	, cyc	(08 Marks)
	c		is a data scanr	ina des	vice? Menti	ion any four	r such des	rices		(04 Marks)
			nvert the bina	-		•				(04 1/12/183)
			nvert the deci	-						(04 Marks)
_		a 1								
2.	a.		t the correct a				1. 1 1.			(04 Marks)
			ranslator which chine language		-	el program	line by lii	ne and cor	ivert	s its into
			Translator	-	Interpreter	C)	Compil	er	D)	Assembler
		ii) Th	ne size of most		_		_		ĺ	
			8 inch		3.5 inch		5.25 in	ch	D)	2.5 inch
		iii) W	hich of these	is not a	network to	pology?				•
		\mathbf{A}) Bus	B)	Ring	C) Star		D)	Square
		•	hich of these	is not a	type of tra	nslator				
) Assembler		Interprete		C) Comp		D)	•
	b.	Ment	ion the variou	s functi	ons of an o	perating sy	stem. Exp	olain any t	wo c	
		T • •	1 1			c				(08 Marks)
	C.		nd explain the		•	_				(04 Marks)
	d.	Ment	ion the differe	nt stora	ige devices	and explain	n one of the	nem.		(04 Marks)
3.	a.	Select	the correct an	CIVOT						(OA Manla)
J.	a.			·-·	na ie seen	ciated with	eoftwar	e chances	. / .	(04 Marks) nodification /
			olution of sof		12 12 C220	oracoa with	i somwan	c change	, , 1	nounication /
			Design		Coding	C	C) Testin	g	D)	Maintenance
		,	_	,	_		•	-	,	

		ii) The type of programming that is done using C is
		A) High level B) Low level
		C) Both A & B D) None of these
		iii) The function which takes a single character input from the keyboard is
		A) get chr B) get char C) give char D) char get
		iv) Which of these is not a key word to C language?
		A) float B) static C) delete D) insert
	b.	What are C tokens? Mention them. Explain any two of them. (08 Marks)
		What is a datatype? Mention the basic data types available in C. (04 Marks)
	d.	What are variables? How are they declared? (04 Marks)
4.	a.	Select the correct answer: (04 Marks)
	ш.	i) The order in which different operations in an expression are evaluated is decided
		by
		A) Associativity B) Precedence C) Evaluation D) Format
		ii) The correct version of the clause to include I/O function library in C program is
		A) # include < io.h > B) # include < Std io.h >
		C) include # < io.h > D) include # < Std io.h >
		iii) The result of evaluating the expression 7% 5 + 10.0 * 10/3 is
		A) 32.0 B) 32 C) 31.0 D) 31
		iv) Let $K = 12$, $i = 3$, $J = 5$. Consider the statement $K + = i + J + + + + + + + + + + + + + + + + +$
		the values of k. i. J respectively are
		A) 21, 3, 6 B) 20, 3, 6 C) 21, 3, 6 D) 20, 4, 6
	b.	Explain the structure of 'C' program. (06 Marks)
	c.	Write a program to find the area of a triangle given the three sides. (06 Marks)
	d.	With examples, illustrate any four common programming errors. (04 Marks)
		PART - B
5.	a.	Select the correct answer: (04 Marks)
		i) Which of the following will not be terminated by a semicolon sign?
		A) Function prototype B) Function calling statement
		C) Function definition D) None of these
		ii) A function that calls itself is
		A) Nested function B) Overloaded function
		C) Recursive function D) Inline function
		iii) The scope of the variables defined in a function is
		A) Local B) Modular C) Global D) Universal
		iv) The parameters used in a function call are called parametes.
		A) Formal B) Dummy C) Actual D) None of these
	b.	Mention the different ways of passing parameters to the function. Explain one of them.
		(08 Marks)
	¢.	Write a program to accept two integers and swap their values using a function to swap.
		(08 Marks)
6.	a.	Select the correct answer: (04 Marks)
•		i) The correct statement for checking a condition in if statement is
		A) if $(a = b)$ B) if $(a = b)$ C) if (a, b) D) if $(a b)$
		ii) The loop in which the number of iterations remain known prior to the execution of
		the loop is
		A) for B) while C) do while D) None of these
		2 of 3

		iii) The value of switch expression must be A) Real B) int iv) The least number of times the do – while	C) double le loop will be exe	D) All of these ecuted is D) Both A and B
	,	A) 0 B) 1	C) 2	•
		Distinguish between while and do-while sta		(08 Marks)
	c.	Write a C program to read a positive number	er and reverse the	given number. (08 Marks)
7.	a.	Select the correct answer:	l hv. a [2] [4] ia	(04 Marks)
		i) Number of elements in an array defined		D) Name of the sec
		A) 8 B) 12	C) 16	D) None of these
		ii) If $\chi[4]$ is a declaration, then the first an		
		A) 1,4 B) 0,3	C) 3, 0	D) None of these
		iii) Given int a [3] [2] = $\{1, 2, 3, 4, 5, 6\}$; the element in the	he 3 rd row and 2 rd column
		is		
		A) 3 B) 6	C) 52	D) 4
		iv) A function that is used to join two strin	•	,
		A) Strepy B) Strlen		D) Stremp
	h	Explain the declaration and initialization of	•	, <u> </u>
	υ.	Explain the decidation and initialization of	one annonsionar	(06 Marks)
	c.	Write a C program to input N integers into descending order using bubble sort methowith suitable headings.		
8.	a.	Select the correct answer:		(04 Marks)
		i) execution of instructions in a computing.	computer system	is referred to as parallel
		A) Serial B) Sequential	C) Accurate	D) Simultaneous
		ii) Which of the following can be used as a		
		A) A single computer with multiple pro	_	
		B) An arbitrary number of computers of		twork
		C) A combination of the above.	omicolou by u mo	
		D) All of these.		
		iii) Open Mp stands for	D) 011	14:
		A) Open multi – parallelism		multi – programming
		C) Open multi – processing	, –	multi – parallelism.
		iv) An example of environment variable in	OPEN MP is	
		A) Omp – thread – limit	B) Omp – init	
		C) Omp – test – lock	D) Omp – get	
	b.	Define concurrent processing. What is the	motivation for cor	current processing?
				(10 Marks)

