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

Time: 3 hrs.	Max. Marks:100
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Note: 1. Answer any FIVE full questions, choosing at least two from each part.

- 2. Answer all objective type questions only in OMR sheet page 5 of the answer booklet.
- 3. Answer to objective type questions on sheets other than OMR will not be valued.

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1 a		Choose your correct answer for the following:							
	i)	A computer is con							
		A) Information	B) Data	C) Instructions	D) Hardware				
	ii)			sed for weather forecas	ting?				
			ter B) Smart phone	C) Mainframe	D) Workstation				
	iii		•						
			B) 10 ⁹ bytes		D) 10 ¹⁵ bytes				
	iv)	The common key	board arrangement is c	alled					
		A) QWERYT	B) QEWTYR	called C) QWERTY	D) QYWERT				
		_			(04 M				
b). W]	nat types of computer	s are used by the organ	izations? Explain.	(06 M				
C	det	w the hardware devical.	ces of a computer are cl	assified? Explain any t	wo types of device. 10 M				
2 a.	. Ch i)	What does the terr A) Programmable	Computer Interconnec						
2 a.	_	What does the terr A) Programmable B) Programmable	n CPI stands for? Computer Interconnection Computer Interface.						
2 a.	_	What does the term A) Programmable B) Programmable C) Peripheral Com	n CPI stands for? Computer Interconnect Computer Interface. uponent Interconnect.						
2 a.	i)	What does the terr A) Programmable B) Programmable C) Peripheral Com D) Peripheral Com	n CPI stands for? Computer Interconnect Computer Interface. uponent Interconnect. uputer Interface.	tion.	r symbols				
2 a.	_	What does the terr A) Programmable B) Programmable C) Peripheral Com D) Peripheral Com can repre	n CPI stands for? Computer Interconnect Computer Interface. uponent Interconnect. uputer Interface. sent more than 4 billion	tion. n different characters o	•				
2 a.	i) ii)	What does the term A) Programmable B) Programmable C) Peripheral Com D) Peripheral Com can repre A) Unicode	n CPI stands for? Computer Interconnect Computer Interface. uponent Interconnect. uputer Interface. esent more than 4 billion B) ASCII	n different characters o	r symbols. D) EBCDIC				
2 a.	i)	What does the terr A) Programmable B) Programmable C) Peripheral Com D) Peripheral Com can repre A) Unicode Different operating	n CPI stands for? Computer Interconnect Computer Interface. uponent Interconnect. uputer Interface. esent more than 4 billion B) ASCII g systems use different	n different characters o C) BCD systems.	D) EBCDIC				
2 a.	i) ii) iii)	What does the terr A) Programmable B) Programmable C) Peripheral Com D) Peripheral Com can repre A) Unicode Different operating A) Power	n CPI stands for? Computer Interconnect Computer Interface. uponent Interconnect uputer Interface. esent more than 4 billion B) ASCII g systems use different B) File	n different characters of C) BCD systems. C) Disk	D) EBCDIC D) Control				
2 a.	i) ii)	What does the term A) Programmable B) Programmable C) Peripheral Common can repre A) Unicode Different operating A) Power Which of the follow	n CPI stands for? Computer Interconnect Computer Interface. uponent Interconnect uponent Interface. upon	n different characters o C) BCD systems. C) Disk e interface standard use	D) EBCDIC D) Control ed in PCs?				
2 a.	i) ii) iii)	What does the terr A) Programmable B) Programmable C) Peripheral Com D) Peripheral Com can repre A) Unicode Different operating A) Power	n CPI stands for? Computer Interconnect Computer Interface. uponent Interconnect uputer Interface. esent more than 4 billion B) ASCII g systems use different B) File	n different characters of C) BCD systems. C) Disk	D) EBCDIC D) Control ed in PCs? D) EIEIO				
2 a.	i) ii) iii) iv)	What does the term A) Programmable B) Programmable C) Peripheral Common can repre A) Unicode Different operating A) Power Which of the follow	n CPI stands for? Computer Interconnect Computer Interface. nponent Interconnect. nputer Interface. esent more than 4 billion B) ASCII g systems use different B) File wing is a common drive B) ETC	n different characters o C) BCD systems. C) Disk e interface standard use	D) EBCDIC D) Control ed in PCs?				

3	a.	Choo	ose your correct answer for the following:					
		i)	DOS and some versions of UNIX are exam	ples of interfaces.				
			A) Old – fashioned	B) GUI				
			C) Command – line	D) Parallel				
		ii)	ded for use on desktop computer	rs?				
			A) Professional	B) Server				
			C) Enterprise edition	D) Data center server.				
		iii)	In a network, all nodes are connecte	d to a device called a hub and co	ommunicate			
			through it.					
			A) BUS	B) Star				
			C) Ring	D) Mesh				
		iv)	Every webpage has a unique address called					
			A) Hyperlink	B) Uniform resource locator				
			C) HTTP	D) Map	(04 Marks)			
				1:00	4035			
			t do you mean by network topology? Explai		(10 Marks)			
	c.	List	the most commonly used internet services. E	explain the use of e – mail.	(06 Marks)			
4	a.	Cho	ose your correct answer for the following:					
•		i) In a passage of text, individual words and punctuation marks are called						
		•)	A) Variables	B) Constants				
			C) Tokens	D) Keywords				
		ii)	Which of the following is not a valid string					
		•••	A) "x"	B) 'x'				
			C) "2009"	D) "5 + 10"				
		iii)	What is the output of the following C state					
		••••	x = 5; $y = 10$;					
			y = + + x - y;					
			y = y + 10;					
			printf("%d", y);					
			A) 5	B) 20				
			C) 6	D) None of these				
		iv)	Which of the following is not a bitwise op	•				
		-11	A) &	B) <<				
			,					
			C) &&	D)	(04 Marks)			
	h	Det	ne an algorithm and explain the important cl	naracterics of an algorithm	(04 Marks)			
	b.	117-14	he an argorithm and explain the important of	ic equation $av^2 + bv + c = 0$	(04 Marks)			
	C.	Write a flow chart to find all roots of the quadratic equation $ax^2 + bx + c = 0$.						
	d.		n an example explain the following:					
		i)	Logical operators		(OA Mawka)			
		ii)	Conditional operator.		(04 Marks)			

PART - B

5	a.	Choose your correct answer for the following: i) Which of the following built in function can be used to erase the unwanted characters? A) delete B) erase C) fflush D) flush ii) What will be the output of the following program? #include <stdio.h> int A = 10; void main() {int a = 50;</stdio.h>
		printf("%d", a); }
		A) 50 B) 10 C) error D) garbage value
		iii) Which of the following can't be checked in a "switch - case" statement?
		A) enum B) int C) char D) float
		iv) Which of the following functions is most opt for reading a multiword?
		A) puts() B) gets() C) scanf() D) vsscanf() (04 Marks)
	ı	
	b.	(00 PK 1)
	c.	Statements.
		menu of figure codes of different figures. On choosing a particular code, the corresponding parameters required by that figure code are accepted and processed. Finally the area should be printed. (08 Marks)
6	a.	Choose your correct answer for the following:
		i) The statement is used to skip a part of the statement in a loop.
		A) Continue B) break C) goto D) switch
		ii) Which of the following looping construct is entry controlled loop?
		A) While B) dowhile C) for D) None of these
		iii) What is the output of the following code segment?
		count = 5;
		while(count > 0)
		printf("%d\t", count); A) 4 3 2 1 0 B) 4 3 2 1 0 -1
		11) 1 0 = 1 1
		to the state of th
		iv) If the body of the loop contains only a semicolon, then it is called as A) Infinite statement B) Sentinal statement
		C) Null statement D) None of these.
		(04 Marks)
	b.	Write a C program using dowhile loop to accept an integer and reverse it. Also check
		whether it is palindrome or not. (08 Marks)
	c.	vv: v =

7	a.	Choose your correct answer for the following:					
		i) An array is a data type.					
		A) Fundamental B) User – defined					
		C) Derived D) None of these					
		When an array is declared, array elements are initialized to					
		A) 1 B) -1					
		C) 0 D) None of these					
		iii) Which of the following declarations has an error?					
		A) int a[] = $\{0, 0, 0, 0, 0\}$;					
		B) float $b[3][2] = \{0, 1, 2, 3\}$;					
		C) char c[] = $\{'V', 'T', 'U', ' 0'\}$					
		D) int $m[2, 4] = \{\{0, 0, 0, 0\}, \{1, 1, 1, 1\}\};$					
		iv) Arrays can be initialized at:					
		A) Compile time B) Run time					
		C) Both A and B D) None of these (04 Marks)					
	b.	Write a program to read n integers and sort them in an ascending order. Print the original					
		and sorted arrays. (08 Marks)					
	C.	Define an array. How arrays are classified? How are they initialized? Explain with an					
		example. (08 Marks)					
8	a.	Choose your correct answer for the following: i) statement is required, if the return type is anything other than void.					
		A) goto B) continue					
		C) return D) break					
		ii) sqrt() is a function					
		A) user – defined function B) library					
		C) variable D) keyword					
		iii) In modular programming, modules are designed as:					
		A) Single – entry systems B) Single – exit systems					
		C) Both A and B D) None of these					
		iv) Which of the following is an illegal declaration?					
		A) int sum(int a, b); B) int sum(int a, int b);					
		C) Both A and B D) None of these (04 Marks)					
	b.	Distinguish between the following, with an example:					
		i) Actual and formal parameters.					
		ii) Global and local variables.					
		iii) Calling function and called function. (08 Marks)					
	c.	Write a C function to find the factorial of a number. Use this function to evaluate the					
		binomial coefficients. The formula to compute binomial coefficient is, $bc = \frac{n!}{r!(n-r)!}$.					
		(08 Marks)					

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