Jages.	will be treated as malanatics
ing your answers, 4 pulsorily draw diagonal cross lines on the remaining blaf a	in, appeal to evaluator and for equations written extra $42+8 = 50$ will be tracted as malarmetic.
uit ivote: 1. On completing your answers, 4 pulsorily draw diagonal ci	<ol><li>Any revealing of identification,</li></ol>

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06CCP13/23

(08 Marks)

(08 Marks)

## First/Second Semester B.E. Degree Examination, June/July 2011 Computer Concepts and C – Programming

11	me:	3 nrs	•			Max. Marks:100
No	2	2. An	swer any FIVE full que swer all objective type q swer to objective type qu	uestions only in O	MR sheet page 5 of th	he answer booklet.
1	a.	Cho	oose your answers for the			
•	٠	i)	A computer converts da			
		-)	A) Information		B) Charts	
			C) Software		D) Input/Output	
		ii)	Which of the following	is a soft copy devic	e?	
			A) Dot matrix printers	, жоты сор, жоты	B) Inkjet printers	
			C) Laser printers		D) Monitors	
		iii)	The quality of the moni	tor does not depend		
			A) Size	-	B) Resolution	
			C) Dot pitch		D) Speed	
		iv)	The common key board	d arrangement is call	led the layout	
			A) QWERTY		B) QUWTYR	
		T	C) QYWERT		D) QWERTY	(04 Marks)
	b.		lain in brief the types of c			(08 Marks)
	c.	Wha	t are output devices? What	at are the various ou	tput devices?	(08 Marks)
2	a.	Cho	ose your answers for the	following:		
		i)	The process of mapping		ace is called	•
				3) Charging	C) Formatting	D) Accessing
		ii)	The back of a CRT mon		ed with	~) . 100000
			A) Phosphors B	3) Electrons	C) Elements	D) None of these
		iii)	Which of the following	is the unit of data?		,
			A) Tera byte B	) Nibble	C) Bit	D) All of these
		iv)	The term dots/inch (dpi	) refers to a printers		,
			A) Speed B	) Resolution	C) Output	D) Colours
	h	D:cc	montinto hater			(04 Marks)
	U.		erentiate between:	<b>1</b>		
		i)	Primary memory and see	condary memory.		

c. What are the steps to be taken to optimize the computer drive? Explain.

Floppy disk and hard disk.

3	a.	Cho	ose your answers for t	he following:		•					
		i)	A device that connec	ts two or more LANs i	s a						
			A) HUB	B) SWITCH	C) BRIDGE	D) ROUTER					
		ii)	A program which is	used to access the cont	ents of web and view v	vebpages is					
			A) Website	B) Web brouser	C) Hot mail	D) None of these					
		iii)	Which of the followi	ng is not an O.S?							
		•	A) Windows	B) Linux	C) Apple	D) Macintosh					
		iv)	The O.S. is used in	systems							
			A) Real time	B) Multi user	C) Single user	D) All of these (04 Marks)					
	b.			m? Mention its function		(06 Marks)					
	c.			of network topologies	? Explain in brief, with						
		and o	disadvantages.			(10 Marks)					
4	a.	Cho	ose your answers for t	he following:							
		i)		stant can be any combi	nation of digits from						
		,	A) '1' to '10'	B) '0' to '10'	C) '0' to '9'	D) None of these					
		ii)	•	ng is not a bitwise ope	rator?						
		,	A) < <	B)	C) &&	D) ^					
		iii)	,	onsole input function	, ,						
			A) get char ()	B) gets ()	C) scanf()	D) fgets ()					
		iv)	The valid floating po	, •	, (,	, • ()					
			A) 10 E 10.5		C) 10.5 e 10.5	D) 10.5 E 10					
			•	•	·	(04 Marks)					
	b.	. What is an algorithm? Write an algorithm to find the biggest of three numbers using if-els									
		statement.									
	c.	What is a variable? List out the rules to define a variable. (05 Marks									
	d.	Wha	t is an operator? Expla	ain the different types of	of an operator.	(06 Marks)					
				PART – B							
5	a.	Cho	ose your answers for t								
		i)	Identify the invalid s	_							
		-/	A) case 4	B) case 'a'	C) case4	D) case 1					
		ii)	•	nal branch statement	,	,					
		.,	A) goto	B) break	C) continue	D) switch					
		iii)	The break statement	•							
		,	A) to skip the statem	nent	B) in switch statemen	nt					
			C) in looping staten		D) All of these						
		iv)	The output of the fol								
			# include <stdio.h></stdio.h>	<b>.</b> .		:					
			void main ()								
			{								
			int $i = 8$ ;								
			printf("%d", i>>	·1);							
			}								
			A) 8	B) 4	C) 16	D) Invalid printf					
			•	-		(04 Marks)					
	b.			natted I/O functions in		(08 Marks)					
	C.			ed if and ladder if state		(03 Marks)					
	d.	Wri	te a program to find th	e roots of a quadratic e	quation with switch sta	atement. (05 Marks)					

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Choose your answers for the following:
6
             Identify the correct syntax for 'for' loop
              A) for (Exp1; exp2; exp3)
                                                          B) for (Exp1 : Exp2 : exp3)
                                                          D) for (Exp1 : Exp2 ; exp3)
              C) for (Exp1; exp2; exp3);
             The minimum number of times the do-while loop will be executed.
        ii)
                                                                                D) both A and B
                                                          C) 2
              A) 0
                                    B) 1
        iii)
              The keyword 'else' can be used with
                                                          C) if
                                    B) while
                                                                                D) for
              A) switch
             What is the output of the following program?
        iv)
              # include <stdio.h>
              void main ()
              {
                  int i;
                 for (i = 1; i < = 4; i++)
                 printf ("%d", i);
                                                          C) 234
                                                                                D) None of these
                                    B) 123
              A) 1234
                                                                                         (04 Marks)
    b. Differentiate between while and do-while statement.
                                                                                          (06 Marks)
        Write a flow chart and C – program to check the given number is prime or not.
                                                                                          (10 Marks)
        Choose your answers for the following:
7
    a.
              The array elements are represented by
                                                          B) Subscripted variable
              A) Index value
                                                          D) Size of array
              C) Array name
              Identify the correct declaration
        ii)
                                                          B) int a[5], [5];
              A) int a[6][5];
                                                          D) int b (10, 10);
              C) int a (10)(10);
              Identify the correct array initialization
                                                          B) float a [4] = \{10.0, 15.00, 17.6, 6.0\}
              A) int a [5] = \{10, 20, 15, 30, 40\}
              C) char s [8] = welcome
                                                          D) A and B
             An array subscript may be
        iv)
                                                          B) Integer variable
              A) Integer constant
                                                          D) All of these
              C) Integer expression
                                                                                          (04 Marks)
    b. What is an array? How you are initializing an array in C?
                                                                                          (06 Marks)
        Write a 'C' program to find the product of two matrices with suitable messages.
                                                                                          (10 Marks)
    a. Choose your answers for the following:
              Which is the user defined function?
                                    B) sqrt()
                                                                                 D) gets ()
                                                           C) clrscr ()
              A) main()
              Identify the statement used to return the control to the calling function
        ii)
                                                           C) return
                                                                                 D) exit
              A) continue
                                    B) break
              A function connot be called as
         iii)
                                                           C) subprogram
                                                                                 D) application
              A) module
                                    B) procedure
              The default return type of function is
         iv)
                                                                                 D) None of these
                                    B) int
                                                           C) void
              A) float
                                                                                          (04 Marks)
    b. Differentiate between call be value end call by reference.
                                                                                          (05 Marks)
    c. Differentiate global and local variables.
                                                                                          (04 Marks)
    d. Write 'C' program to sort the elements by bubble sort technique using functions. (07 Marks)
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		First/Second Seme Compute	_	ree Examination and C Progra	
T	ime:	3 hrs.			Max. Marks:100
N		1. Answer FIVE full qu 2. Answer all objective t 3. Answer to objective t	type questions onl	y in OMR sheet page	e 5 of the answer booklet.
			PAR	Г – А	
1	a.	Select the correct answ i) Which of the follow A) Joystick		nstructions that help c C) ROM	omputer to start up?  D) Monitor
		ii) A collection of 8-bi A) Byte	ts is called B) Word	C) Record	D) File
		iii) Which of the follow A) Printer	ving is not an outpu B) Keyboard	t device? C) VDU	D) CRT Screen
	-		B) 6-pin connecto	or C) 8-pin connector	D) USB connector. (64 Marks)
	b.	With a neat diagram, ex		•	(08 Marks)
	c. d.	<ul><li>Explain two types of me</li><li>i) Convert the decimal</li></ul>			play image and text. (04 Marks)
		ii) Convert the binary n	number 0011110 to	decimal.	(04 Marks)
2	a.	Select the correct answe i) Unlike a transistor, a A) electricity		store data without a c	ontinual source of D) light
		ii) A magnetic disk's tr A) clusters	acks are divided int B) sectors	· · · · · · · · · · · · · · · · · · ·	D) slices
		iii) A translator which reinto machine langua A) Assembler	eads an entire progr ge code is B) Translator	ram written in high lev  C) Compiler	el language and converts it
		•		•	D) System software nation pass through center
		A) Bus network	B) Star network	C) Ring network	D) Point-to-point network (04 Marks)
	b.	What is an operating sys	stem? List and expl	ain different types of	operating system based on

- (08 Marks)
- What is OSI model? Explain the principle used to develop seven layers of OSI model. (04 Marks)

List the basic components of a network.

(04 Marks)

3	a.	Select the correct answer:  i) Which of the following are not valid identifiers?  A) student_name B)_total C) 2names D) int	
	•	ii) Which of the following are not character constants? A) 'C' B) "C" C) 'bb' D) '?'	
		iii) Which field specification is used to read or write short integer?  A) %c  B) %d  C) %f  D) %hd	1.1 4
		iv) Which function reads data from the keyboard? A) displayf B) read C) printf D) scanf (04 Mart	ks)
	Ъ.	List and explain coding constants. (06 Mar)	
	c.	What is variable? Explain variable initialization. (04 Mari	٠.
	đ.	Explain the structure of 'C' program. (06 Mari	,
4	<b>8.</b>	Select the correct answer:  i) is used to determine the order in which different operations in an expressi are evaluated.	on
•	•	A) Associativity B) precedence C) evaluation D) format	
		ii) Which of the following is not a valid assignment expression? A) X = 23 B) 4X = 8 = 3 C) Y% = 5 D) x = r = 5	
		iii) Which of the following is not an expression format?  A) assignment B) conditional C) binary D) primary	
		iv) Which of the following has highest precedence?  A) prefix increment B) Multiply C) Modulus D) Assignment (04 Mark)	<b>(8</b> )
	b.	If $a = 2$ , $b = 8$ , $c = 4$ , $d = 10$ , what is the value of each of the following? i) $a+b/c \cdot d-c/a$ ii) $(b/a) \% c$ iii) $a+++b+d++$ iv) $++a+b+++d$ (04 Mark	<b>,</b> a)
	c.	Write a program to convert temperature from Fahrenheit to Celsius using the following formula.	-
		Celsius = $\left(\frac{100}{180}\right)$ * (Fahrenheit – 32) (08 Mark	3)
	d.	Convert the following mathematical expressions into 'C' expressions:	
		i) $a + b \times c$ ii) $\frac{a+b}{2}$ iii) $\sqrt{s(s-a)\times(s-b)\times(s-c)}$ iv) $x^2 + y^2 + 2xy$ (04 Mark	<b>(3</b> )
5	a.	PART - B  Select the correct answer:  i) A function that calls itself for its processing is known as  A) Inline function B) Nested function C) Overloaded function D) Recursive function	n
		ii) We declare a function with if it does not have any return type.  A) long B) double C) void D) int	
	٠	iii) Variables inside parenthesis of a function declaration havelevel access.  A) local B) global C) module D) universal	
		iv) Arguments of a function are separated with A) comma(,) B) semicolon (;) C) colon (:) D) None of these.	

	b.	b. Explain the different ways of passing parameters to function. (08)	Marks)
	c.	write a program to accept two numbers from the user and to add and subtract the numbers using functions and display the result on the console. (08)	e two Marks)
6	a.	. Select the correct answer:	
		i) Operator used in logical and is	
		A) & B)! C) && D)	
		ii) Two-way selection is implemented with the statement.	
		A) case B) switch C) else if D) ifelse	
		iii) Which of the following is not a relational operator?  A) < B) <= C) = D) >=	
		iv) The logical operator is true when both the operands are true.	
		A) and $(\&\&)$ B) or $(\parallel)$ C) less than $(<)$ D) > (04)	larks)
	b.	Explain the logical operators used in C. (06 h	farks)
	c.	William and Control of the Control o	larks)
	đ.	THE ALL ALL STATES AND A STATE OF THE STATES AND A STATES AND A STATE OF THE STATES AND A STATES	
	•	(00)	farks)
7	a.		
		i) The process through which data are arranged according to their values is known as	
		A) arranging B) searching C) listing D) sorting	
		ii) The search locates the target item by starting at the beginning and m	oving
		towards end of the list.	
		A) selection B) binary C) sequential D) ascending	
		iii) Which of the following statements assigns the value stored in x to the first element	on an
		array ary? A) $ary = x$ B) $ary = x[0]$ C) $ary = x[1]$ D) $ary[0] = x$	
	•	iv) is an integral value used to access elements of an array.  A) Constant B) Element C) variable D) index. (04 N	·
	L		larks)
	b.	(00.1)	larks)
	C.	(14)	larks)
	đ.	What is string? Explain about the string delimiter. (04 N	larks)
8	a.	Select the correct answer:	
		i) Parallel computing is execution of instructions in a computer system.	
		A) Simultaneous B) Serial C) Accurate D) Complete	
		ii) Which of the following is not an example of parallel computing in the field of so	ience
		and research?	TOTICC
		A) Bio-informatics B) Quantum research	
		C) Solved grid problem D) Distributed processing	•
		iii) The individual sectors inside a section directives are specified with the help of whi	ch of
		the following directive?	
		A) sections B) region C) segment D) None of these	
		iv) The use of threads reduces time of the processor.	
	b.	A) idle time B) Memory access time C) latency time D) None of these (04 M) What are the motivating factors which drives us towards parallel computing? (08 M)	•
			arks)
	C.	What are threads? Highlight the need of threads.	arke)

