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First/Second Semester B.E. Degree Examination, June/July 2014

Computer Concepts and C Programming

e: 3 h	rs.	Max. Marks: 100
2. /	Inswer all objective type questions only in OMR sheet page 5 t	of the answer booklet.
	PART - A	
a. C	Thoose the correct answers for the following:	(04 Mařks
i)		
		D) input or output
-11		miles.
	· · · · · · · · · · · · · · · · · · ·	D) memory
1)		D) miner mine
is		D) printer size
•		
b. D		(06 Marks
		(10 Marks
	and the same of th	(**************************************
1. C	thoose the correct answers for the following:	(Qi Wark
i)	A list of command choices in an OS is called	. (())))
	A) command line B) check box C) drop down list	D) menu
i		
		—
		n
11		D) 1
110		D) domain
11	·	D) morellel
5 E		D) parallel (10 Marks)
		(IV Halka
	_	(06 Marks
-,	my specims	(oo mana
a. C	hoose the correct answers for the following:	(04 Marks
		,
	A) 'C' B) "c" C) "b"	D) "?"
Ü) Which field specification is used to refer short int?	
	A) %c B) %d C) %fd	D) %hd.
11		
		D) 32 bits
iv		7
_		D) fgets()
	·	(06 Marks)
z. W	hat are the different types of input and output functions?	(10 Marks
	: 1. A 2. A 3. A 6. (i) ii iv D. E. (ii) iii iv D. E. (iii) iii iv D. E. (iiiiii) iii iv D. E. (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	i) A computer converts data into this A) information B) charts C) software ii) A device that holds a disk is called A) drive B) RAM C) ROM iii) The terms dots per inch (dpi) refers to A) printer resolution B) printer speed C) printer output iv) The earliest computer were systems A) digital B) paper C) analog D) slide rule Differentiate between system software and application software. Explain with example, different type of printers. Choose the correct answers for the following: i) A list of command choices in an OS is called A) command line B) check box C) drop down list ii) is one of the benefits using network. A) File security B) Petipheral sha C) Protection from virus D) Folder creatio iii) FTP sites are often called A) channels B) archives C) groups iv) DOS and Linux are examples of interface. A) old fashion B) GUI C) command line Explain in detail, various types of network topologies. Define the following: ii) Thrashing ii) Buffering iii) Spooling Choose the correct answers for the following: ii) Which of the following is a character constant? A) C' B) "c" C) "b" ii) Which field specification is used to refer short int? A) %c B) %d C) %fd iii) A nibble is A) 4 bits B) 8 bits C) 16 bits iv) Identify fortnatted console input function. A) getchar() B) gets() C) scanf() Explain the structure of a C program.

4	4 a. Choose the correct answers for the following:			(04 Marks)		
		i) A is name given to the memory location where data can be stored, accessed				
			manipulated.			
7			A) string	B) keyword	C) reserved word	D) variable
	ii) The data type does not occupy any space in the memory.					
			A) long int	B) float	C) void	D) double
		111)	An operator which	acts on 3 operands		
			A) Unary operator		B) Key operator	
		C) Binary operator		D) Ternary operato	1	
		iv)	What is the output	of the following code	?	
	main ()					
			{printf ("%d", 'A	·);}		
			A) 65	B) A	C) 65.0	D) Error
	b.	Eval	luate the expressions	s where $a = 8$, $b = 15$, c	z = 4.	
		i) 2	!*((a%5)*(4+(b-3)	/(c + 2)))		
		ii) l	00/20 < = 10 - 5 + 10	-100% 10 - 20 = = 5	>=1!=20	(06 Marks)
	C.	Writ	e a C program to	find and output all the	e roots of a quadratic	
			ficients		•	(10 Marks)
						,
				<u>PART – I</u>		
5	a.	Cho		ers for the following		(04 Marks)
		i)		type of function is		
We.			A) int	B) float	C) char	D) void
*		ii)	Which is the user		*	
	1		A) main()	B) sqrt()	C) clrscr()	D) gets()
		111,)-		ll <mark>s its</mark> elf is known as	_ B	COM
			A) recursive functi	on	B) iterative function	1
	C) main function D) none of these					
		iv)	· ·	_	nction call are called as	
			A) actual paramete	ers	B) formal paramete	rs
			C) no parameters		D) none of these	
	b				in C that returns the	
		rotated to the right by n bit positions as an unsigned integer. Invoke the function from the				
		mair	with different vahi	es for x and n and print	t the results with suitable	e headings. (08 Marks)
	C.			gorized based on the v	value returned by the fu	unction and parameter
		acce	pted?			(08 Marks)
6	a.	Cho	ose the correct and	ers for the following:		(DA Martis)
U	a.	i)		nt in switch is separate		(04 Marks)
		1)	A) break	B) continue	C) exit	D) coto
		ii)		grouped together in b	•	D) goto
		11,)	A) compound	B) equivalent	C) complex	DV cimalo
		111)		y:z" is equivalent to	C) complex	D) simple
<u>*</u>		111,	A) if $(x = 0)y$; e.		B) if $(x = -1)z$; else	n 11.
				15¢ 2,	D) if $(x = -1)y$; els	
						¢ Z.
	iv) How many times is the following loop executed for $(i = 0; i \le 5; i++)$					
			· ·	•		
			{printf ("Hello"); A)	B) 6	C) zero	D) in Carte
b. Write a C program to find the sum of N natural number				C) zero	D) infinite	
	((08 Marks)	
					(08 Marks)	
	2 01 3					

7	a.	Choose the correct answers for the following	:	(04 Marks)	
		i) The number of elements in array A[3][4] is	,	
		A) 8 B) 12	C) 16	D) none of these	
		ii) If A[4] is declaration, then the first and	last array index will be	,	
		A) 1.4 B) 0, 3	C) 3, 0	D) none of these	
		iii) A function that is used to string copy is			
		A) strcopy() B) strcpy()	C) copystring()	D) concat()	
		iv) Given $A[3][2] = \{1, 2, 3, 4, 5, 6\}$; The	element in 3 rd row 2 nd co	i is	
		A) 3 B) 4	C) 6	D) 2	
	ь.	Explain initialization and declaration of 2D ar		(08 Marks)	
	\mathbf{c}_{*}	ray and sort them in			
		ascending order using Bubble sort.		(08 Marks)	
_					
8	a.	Choose the correct answers for the following		(04 Marks)	
		i) execution of an instruction i	in a computer system i	s referred as parallel	
		computation			
		A) Sequential B) Serial	C) Accurate	D) Simultaneous	
		ii) Open MP stands for			
		A) open multi parallelism	B) organized multi programming		
		C) open multi programmingiii) An example of environment variable in	parallelism		
		A) OMP_thread_limit	B) OMP_init_lock		
		C) OMP_thread_ref	D) OMP_get_bynai		
		iv) Which of the following can be used as re			
		A) Single computer with multi process	(a) (a)	puters	
		C) Combination of above	D) None of these		
	Ъ.	What are threads? Give the advantages and dis			
	C.	Design and develop a parallel program in C to			
		less than 100 making use of the algorithm of S	ieve of Eratosthenes	(08 Marks)	

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