USN						

First/Second Semester B.E. Degree Examination, Dec.2013/Jan.2014

Pim (1/1)	ا د .	<u></u>	Max. Marks 10
Note	2	Answer any FIVE full questions, choosing at least two from each part. Answer all objective type questions only on OMR sheet page 5 of the answer bookl Answer to objective type questions on sheets other than OMR will not be valued.	et.
		PART – A	
1	a.	Choose the correct answers for the following:	(04 Mark
		i) Which of the following is not a primary memory of computer? A) PROM B) CDROM	
		C) EEPROM (C) D) BPROM ii) Two typical components of CPU are	
		A) ALU and input device B) CU and output device C) Memory and ALU D) CU and ALU.	
		Which of the following is not an output devices of computer system? A) Mouse B) Data projectors	
		C) Plotters iv) The size of IMB is equal to: A) 1024 Protes P) 1024 Merce bytes	
		A) 1024 Bytes C) 1024 Kilobytes B) 1024 Mega bytes D) 1024 Gigabytes	
	b.	Explain with neat diagram the basic structure of a computer.	(08 Mar
	c. d.	Explain types of RAM. List types of printers. Explain briefly any two type.	(04 Mar) (04 Mar)
2	a.	Choose the correct answers for the following:	(04 Mar
		i) Which of the following is not an optical storage media? A CDROM B) Floppy disk	
		D) None of these	·.
		.ii) The binary equivalent of the decimal number 13 is A) 1100 B) 1110	<i>(</i>)
		C) 1101 D) 1111	
		iii) Integrated circuits are made from a material.	
7 ₃ 5		A) Semiconductor B) Vaccum tubes	
)		C) Switches D) All of these iv) Calculations and decisions are performed in the unit of the CPU	ę
•		iv) Calculations and decisions are performed in the unit of the CPU A) CU B) Memory unit	
		C) ALU D) IO unit.	
	b.	Explain in detail any two storage devices.	(08 Mar
	c.	Explain briefly about address bus, data bus and control bus.	(06 Mar
	d.	Explain briefly the cache memory.	(02 Mar

	3	a.	Cho	ose the correct answer	_	_		(04 Marks)
			i)		ing is not an operating	•		
				A) MACOS		B) Windows		
A STATE				C) Linux		D) Microsoft office		1.
1,4			ii)	is a set of rul	les to communicate bet	ween computers?		
				A) Topology		B) Protocols		
				C) OSI model		D) All the above		
			iii)	Which of the following	ing is used to connect n	nultiple computers thro	ough LAN	!?
				A) Hubs	_	B) Routers	Ū	
			1964 - 177 1974	C) Switches		D) Bridges	oi.	
			iv)	.*	operating system	· -	\sim	
				Linux	- F / /	B) Windows	3	
				C) zes		D) All of these	*	
		b.	Wha	/ 1 /	m? Explain its purpose.			(02 Monles)
		c.			nd explain types of nety			(02 Marks)
		d.				WULKS,		(08 Marks)
		a.	Ехр	lain briefly switches, b	oriages and routers.			(06 Marks)
	4	a.	Cho	ose the correct answer	s for the following:			(04 Marks)
			i)	represents the	process steps defined i	in algorithms		
				A) Oval		B) Parallelogram am		
				C) Rectangle		D) Diamond		
			ii)	The size of character	datatype (s)	,		
			,	A) 1 byte	~~	B) 2 byte		
				C) 3 byte		D) 4 byte		
			iii)		ng is not a bitwise oper			
			1117	A) &	ng is not a otewise oper	B) <<		
				C) >>		D) &&		
			iv)	•	X = X > 3, what is t			
			11/	A) 7 \times	1A - A > 3, what is t		mputation	•
				C) 9		B) 8		
		L	Darmi		we and also whele Durin	D) 10	2 1	
		b.			rt and algorithm. Draw	a nowchart is input	3 number	_
			large	est of 3 numbers.	C (C)	0,3		(08 Marks)
		c.	Expi	ain in detail the structu	are of a 'C', program.	nerator in 'C	•45	(05 Marks)
		d.	Expl	ain briefly with an exa	mple the conditional o	perator in 'C.	d.	(03 Marks)
					PART B			
	5	a.	Cho	ose the correct answer	s for the following:			(04 Marks)
			i)		reading unsigned intege	er in decimal form is		(**************************************
		S 1	-/	A) %d	B) %i	C) %U	D) %x	14.6
			ii)	is used to supp	· ·	c) /00	D) /0A	
, Ç			,	${A) +}$	B) *	C) -	D) /	
18.00			:::	•	•	,	,	11
•			iii)		ng is not an uncondition	•		.8"
				A) if	B) goto	C) break	D) conti	nue
			iv)		c = 0, what is the outpo	ut of the following staf	ement?	
				If (~b)				
				c = 1;				
				Else				
				c = 2;				
				A) 0	B) 1	C) 2 '	D) 3	

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b. Write a 'C' program using goto statement to display to even numbers between 1 to 20.
                                                                                            (05 Marks)
    c. Explain with an examples the unformatted input and output functions.
                                                                                            (06 Marks)
    d. Explain with syntax the switch statement. Give an example.
                                                                                            (05 Marks)
        Choose the correct answers for the following:
              What is the output of the following code segment?
                a = 10
                do
                printf ("%d"), a --);
                while (-- a \ge 0);
              A) 10, 8, 6, 4, 2
                                                            B) 10, 8, 6, 4, 2, 0
              C) 10, 8, 6, 4, 2, 0, -2
                                                            D) 10, 8, 6, 5, 3, 10
              A for loop with no test condition is known as
        ii)
                                                                  loop.
              A) infirste
                                                                                  D) none of these
                                     B) finite
                                                            C) conditional
        iii)
              What is the output of the following code segment
                for (i = 0; i < n; i ++
                { printf ("%d")%
                                                           Û.
                break:
                printf ("%d", i);
                                     B) 1.2
                                                                                  D) 0, 1
              A) error
                                                            C) 0, 0
        iv)
              What is the output of the following code segment?
                while (x = 5)
                { printf ("%d", x);
                 }
                                                            C) Compile time error
              A) 5
                                     B) Run timer error
                                                                                        D) infinite
        List different looping statements. Explain with syntax and example all looping statements.
                                                                                            (10 Marks)
         Write a 'C' program to display sum and reverse of the given 5 digit number.
                                                                                            (06 Marks)
7
        Choose correct answers for the following:
                                                                                            (04 Marks)
            What is the output of the following code segment?
              char a [4] = {(a', b', c', d')};
              printf ("%d", size of (a));
                                     B) 2
              What is the output of the following code segment?
               int a [2] [3] = \{1, 2, 3, 4, 5, 6\};
               printf ("%d", a [2] [3]);
                                                                                  D) 3
              A) 0
                                                            C) 2
              What will happen if you assign a value to an array element whose subscript exceeds
        iii)
              the size of array?
              A) The element will be set to 0
                                                            B) Compiler error
              C) Runtime error
                                                            D) None of these
              If you pass an array as an argument to a function, what actually gets passed?
              A) Values of elements in array
                                                            B) First element of array
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D) Address of the last element of array.

C) Base address of the array

	b.	What is an array? How are they declared in 'C'? What are the rules to be followed while
	c.	using arrays? (06 Marks
	d.	Write a 'C' program to generate first N Fibonacci series using an array. (05 Marks
	u.	Explain with suitable example the two dimensional arrays. (05 Marks
()8,	a.	Choose the correct answers for the following: (04 Marks
رو ^{حم} کن د	* * ****	i) Parameters are specified in function definition are called as
		A) Actual arguments B) Formal parameters
		C) Actual parameters D) None of these
		ii) What is the output of the following function code statement?
		int add (int a, int b)
		Char sum;
		int sum1;
		$sum_{\lambda} \neq a + b;$
		} return (sym);
		A) runtime error B) compile time error
		C) 0 D) Return sum1 contents
		iii) The following code statement has an error. Replace the suitable code to make erro
		free statement:
		add (&a, &b); //calling function
		add (int a, int b) //function definition
		{ :
		A) add (int *a, int * b) B) add (int &a, int & b)
		iv) A variable declared in a function is called
	1.	A) global variable B) actual variable C) formal variable D) local variable
	b.	What is function? Explain its advantages. (04 Marks
	c.	Differentiate the following:
		i) Actual parameters and formal parameters.
	,	11) Call by value and call by reference. (06 Marks
	d.	Write a C program to sort a given elements using bubble sort using functions. (06 Marks)
		i) Actual parameters and formal parameters. ii) Call by value and call by reference. Write a 'C' program to sort a given elements using bubble sort using functions. (06 Marks)
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