Time: 3 hrs.

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## First/Second Semester B.E. Degree Examination, June/July 2018 Computer Concepts and 'C' Programming

Max. Marks:100

D) Star

D) DOS.

D) sum of value

D) '\N'

(04 Marks)

(04 Marks)

			Note: Answer any FI	VE full questions, cho	osing at least two from	each part.		
				PART -	A			
1	a.	Choose the correct answers for the following:						
•		i) Hexadecimal equivalent for decimal 16 is						
			A) A	B) F	C) 10	D) 11		
		ii)	The term A.L.U. ref	ers to				
		,	A) Addition logical		B) Arithmetic log	ical unit		
		C) Algorithm logical unit			D) Analysis logic	D) Analysis logical unit		
		iii)			haracter in computer			
		,	A) Pseudocode	B) ASCII Code		D) EBCDIC Code		
		iv)	If the input is photo					
			A) Printer		C) Scanner	D) Keyboard (04 Marks)		
	b.	Dra	w the basic structure of	of computer and exp	ain each unit briefly.	(06 Marks)		
	c.	Cor	envert the following dec	ecimal and BCD.				
	, č.	i) 34 ii) 19 iii) 129.				(06 Marks)		
	d.		lain the information pr	ocessing life cycle.		(04 Marks)		
		1	u u					
2	a.	. Choose the correct answers for the follow		rs for the following:				
		i)		otical storage device				
		,	A) Magnetic tape		C) CD-ROM	D) Hard disc		
		ii)	G.U.J. stands for					
			A) General User Int	erface	B) Google User In	nterface		
			C) Graphical User I		D) None of these			
		iii)	is not a	network topology				

(08 Marks) Explain briefly important functions of an operating system. (08 Marks) Explain the different advantages of computer network.

C) Mesh

Choose the correct answers for the following: 3 a. Graphical representation of algorithm is called

A) BUS

A) Microsoft office

iv)

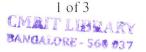
1) Graphical representation of algorithm is called			
	A) Bar chart	B) Fine chart	
	C) Flow chart	D) Data chart.	
ii)	is not an valid variable name.		
	A) total B) & avg	C) -SUM	
iii)	is an invalid declaration.		
		DI III C DI	

B) Bridge is not an example of operating system

B) Unix

B) #define P1 3.142 A) #define A 1 C) #define PI = 22/7

D) #define A 3.142 is an example of backlash constant. B) '\%' C) ' (0')



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	b.	Briefly	explain the structure	e of a 'C' program wi	th example.		(06 Marks)	
	c.	Write a	'C' program to find	the simple interest g	iven the value of P, R,	T.	(06 Marks)	
	d.	Explain	the different data ty	pes supported by 'C'	language.		(04 Marks)	
4	a.	Choose	e the correct answers	for the following:				
		i) T	he result of the operation	ation 3 % 4 will be				
		/	a) 0.75	B) 0	C) 3	D) 1		
			he output of prints (	%X", 10); will be				
			A) 16	B) A	C) 12	D) Nor	e of these	
		iii) G	given $i = 3$ , $j = 2$ the	result of the expressio	on $j + = -i + 3$ will be			
			.) 6	B) 5	C) 7	D) 8		
				e") : printf ("true"); th	e output of this C state	ment wil	l be	
			(a) error	B) false	C) true	D) Nor	e of these	
							(04 Marks)	
	b.	Write a	a 'C' program to find	sum of the digits in a	a given decimal numbe	r.		
		(For ex	xample 123 = 1 + 2 +	-3=6).			(08 Marks)	
	C.	Explain	n the following ope	erators with example:	s: i) Relational ii) L	ogical	iii) Bitwise	
		iv) Sho	ort hand assignment.				(08 Marks)	
				PART – B				
5	a.	Choose	e the correct answers	for the following:				
	100	i) _	is defaul	t storage class of loca		=	8 W.	
			(A) extern	B) static	C) auto		ne of these	
		ii) w	while (2) printf ("weld	come"); will print tex	t "welcome" ti	mes		
			(a) two times	B) one time		D) erro	r	
		iii) F	unction which calls	itself are called	function		= 2	
		A	(a) Iterative	B) Call back	7	D) reci	ursive	
		iv) _	is not a m	ethod of passing para	meter to function			
		A	(a) call by reference	B) call by definition	C) call by value	D) call	by address.	
		MODEL IN THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF THE P					(04 Marks)	
	b.			ermine weather the g	iven integer is prime o	r not usii		
			efined function.	· ·			(06 Marks)	
	C.	Explair	n the different types	of parameter passing	technique.	1	(06 Marks)	
	d.		a value of theta $(\theta)$	write a user defined l	function to calculate the	ie value (		
		theta).					(04 Marks)	
				C 1 C 110 : 1				
6	a.		e the correct answers			.4.		
		i) fo	or $(1 = 0; 1 < 5; 1++)$	printf ("%d", 1); WIII	print as outpu		2.2	
			(1) 0 1 2 3 4 5	B) 1 2 3 4 5	Ulat will be the velve	D) 0 1		
		ii) if $(0)$ a = 1; the initial value of a is 3. What will be the value after execution						
			statement	1	C) $a = -1$	D) a =	2	
			$\mathbf{A}) \mathbf{a} = 0$	B) $a = 1$	/	,	3	
					bers between 1 and 100	)		
				i++) printf("%d", i);	, :\			
				i = i + 2) printf("%d"				
		(	) for $(1 = 1; 1 < = 10)$	0; $i = i + 2$ ) printf("%	u-, 1);			
				i += 2) printf("%d",				
		iv)		vay selection statemen		D) for	(0.4 NA1- N	
		$\sim P$	(1) while	B) is	C) switch	D) for	(04 Marks)	

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	b.	Write a 'C' program to print a multiplication table as given below from 1 to	
		loop.	(08 Marks)
		1 2 3 4 5 6 7 8 9 10	
		2 4 6 8 10 12 14 16 18 20	
		3 6 9 12 15 18 21 24 27 30	
		4 8 12 16 20 24 28 32 36 40	
		5 10 15 20 25 30 35 40 45 50	
	c.	Compare while and do while loop statement.	(04 Marks)
	d.	• · · · · · · · · · · · · · · · · · · ·	(04 Marks)
7	a.	Choose correct answers for the following:	
		i) int $a[5] = \{0, 1, 2, 3, 4\}$ ; printf("%d", $a[2]$ ); will print	
		A) 0 B) 1 C) 3 D) 2	
		ii) Total elements in a integer array declared as int a[5][6] will be	
		A) 11 B) 25 C) 36 D) 30	
		iii) The string in 'C' will terminate with character	
		A) \(\t'\) B) \(\n'\) C) \(\0\)	3'
		iv) is not a valid array declaration	
			ar x[10].
			(04 Marks)
	b.		(05 Marks)
	c.	Write a 'C' program to concatinate 2 given string s1, s2.	(06 Marks)
	d.	Write a 'C' program to search a key using a linear search.	(05 Marks)
		(6 k)	
8	a.	Choose the correct answers for the following:	
		i) Parallel computing executes the tasks member	
		A) pipe lined B) linear C) simultaneous D) ste	epwise
		ii) In parallel computing threads cannot be used forpurpose	
		A) Enhance performance B) Reduce processor idle tir	ne
		C) Reduce programming errors  D) Parallel execution of task	
		iii) #pragma omp parallel shared (a) will make the variable a to be available	as
		A) Each thread has its own copy of a B) Each thread defines valu	e of a
		C) Each thread shares value of a D) None of these.	
		iv) is not a synchronization clause in parallel computing	
		A) single B) section C) master D) cr	itical.
			(04 Marks)
	b.		
		of size 10.	(08 Marks)
	C.		(04 Marks)
	d.	Explain the need of threads in parallel programming.	(04 Marks)

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