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cond Semester B.E. Degree Examination, June/July 2019 Firs Computer Concepts of 'C' Programming

Time: 3 hrs. Max. Marks:100

> Note: Answer any FIVE full questions, choosing at least TWO from each part.

PART — A								
l a. Choose the correct answers for the following : (04 Marks)								
i) Which of the following is not a multiuser computer								
	A) PC	B) Minicomputer	C) Mainframe	D) Super Co	mputer			
ii)	Transistor invention fal	lls under the generation	1		-			
	A) First	B) Second	C) Third	D) None of	above			
di)	Which of the following	is non-impact printer		,				
	A) Dot Matrix	B) Dairy Wheel	C) Laser Printer	D) Line Pri	nter			
iv)	Binary equivalent of 21	Bis) '	,				
	A) 0010 1011	B) 0011 1010	C) 0001 lol 1	D) 0100 10	11.			
b. What	t is cache memory? How	v its presence affects t	he speed of processing	,	6 Marks)			
	is firmware? How is it				4 Marks)			
	are the different types		_		6 Marks)			
		4		,	,			
2 a. Choose	the correct answers f	or the following:		(0	4 Marks)			
	dentify the odd term an	4.7		,-	,			
,	A) Coaxial Cable		C) Twisted Pair	D) Micro Wa	ive			
(ii	Hard disk can serve as	a) of male	0, 0	-,				
,	A) Input Media	B) Output Media	C) Storage	D) All of Ab	ove			
iii	Which of the following		, .	,	010			
,	A) Operating System	. [0	B) Compiler	at operation				
C) DBMS			D) Command interpreter					
iv)	Which of following is	not an application softs	,	, ctci				
11)	A) Word processor E		C) UNIX	D) Disk top p	ublisher			
b. De	scribe the major differen		,	,				
ь. Бс	scribe the major uniere	ice between a time snai	ing and cheme/serve		6 Marks)			
c. Ex	plain the memory mana	gement functions of O.S	S.	-	6 Marks)			
	at is computer network?			(0	4 Marks)			
3 a. Choose	e the correct answers f	for the following:		(0	4 Marks)			
i)	Which of the following		of software					
,	A) Understandability		C) consistency	D) All of a	bove			
(ii	In which phase of softy			,				
,	A) Compilation	B) Linking	C) testing	D) Integrat				
(iii	Oval sign on a flow cha	, .	c) testing	,				
,	A) End	B) Start	C) Both A and B	D) None of	fabove			
	Which of the following	,	,	_,				
.,,	A) int	B) char	C) while	D) sqr.				
b. Lis	t the steps involved in p	,	,		8 Marks)			
	aw a flow chart to find la				4 Marks)			
		0		4	4 Marks)			
+Pankar	nat are identifiers? Give	ww.FirstRanker.com	1	(0				

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 ii) If 'x' is variable of type int, the value returned by sizeof (x) is A) 1 B) 2 C) 8 iii) Break statement transfers the control A) Out of block B) Out of function C) Out of program iv) If i = 1, then the output of printg"%d", i++) is A) 1 B) 2 C) 0 b. Write a program to print roots of quadratic equation. c. Explain ternary operator, with a sample code segment. d. Convert the following into 'C' equivalent. 	(04 Marks) d k is int data type D) 0.1 D) 4 D) None of above D) none of above (08 Marks) (04 Marks)			
A _B $(a+b)$ _(a-b)	(04 Marks)			
PART — B				
5 a. Choose the correct answers for the following:	(04 Marks)			
i) The arguments in the function call are called	(01.111110)			
A) Formal parameters B) Actual parameters				
C) Variables D) None of above ii) Functions in 'C' should have at least				
A) No argument B) One argument C) Two arguments	D) None of above			
iii) printa) function is in built-in header file	,			
A) stdlib.h B) stdio.h C) conio.h	D) math.h			
iv) Global variables are accessed to A) Only main() B) All the function				
C) All function accept main() D) None of above.				
Distinguish between the following:				
i) Actual and fomal parameters				
ii) Global and local variables				
iii) Automatic and static storage class.	(12 Marks)			
c. Write a program using functions to find the product of two numbers.	(04 Marks'			
6 a. Choose the correct answers for the following:	(04 Marks)			
 i) Which of the following 'C' statement branches unconditionally from 	one point to			
another point				
A) if B) switch C) goto	D) while			
ii) The statement in 'C' which skips the remaining statements and pattern iteration is	proceeds with next			
A) Break B) Continue C) exit()	D) switch()			
iii) Which of the following control structure uses care label	2)()			
A) while B) for C) if-else	D) switch			
iv) Recursive function will have				
A) Call to itself B) Terminating condi	ition			
C) An argument D) All of above. b. List the different if statements, write 'C' program to illustrate any two if st	etamente (BP Manla)			
 b. List the different if statements, write 'C' program to illustrate any two if statements. (0 c. Differentiate between do-while loop and for-loop structure. (0 				
c. Differentiate between do-while loop and for-loop structure. (04 Mark d. Write a program in 'C' to find factorial of 'n:.nitirber using recursion. (04 Mark				

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7 a. C	hoos	(04 Marks)			
	i)	Subscripted variables	are called as		
		 A) Identifier 	B) structure	C) Array	 D) Array of structure
	ii)	Array name can also b	e used as		
		A) Pointer variable	B) Base address	C) Variable	D) Constant
	iii)	A string can be a array	y of		
		 A) Alphabets 	B) Special character	s C) Digits	 D) All of above
	iv)	End of string is marke	d with character	, ,	
		A) In	B)\0	C) \b	D) 1s.
ь.	Illu	strate with a example h	ow the integer element	ts of one dimensio	nal array is stored, if base
	ado	dress is 2000.	-		(06 Marks)
c.	Ex	plain with an example t	o declare and initialize	a string.	(04 Marks)
d.		ven array of n elements,			r this (06 Marks)
8 a. Cl	ioos	e the correct answers	for the following:		(04 Marks)
		Parallelism means			
		 A) Having multipro 	cessors		
		b) Dual core process	sor		
		c) Concurrently exe	cuting instruction on a	single cpu	
		d) All of above	10		
	ii)	Open MP is an			
		A) Operating syster	n B) Framework	C) API	 D) None of above
	iii)	Which of the following	is not an openMP var	riable	_
		A) OMP OYNAMI		B) OMP Neste	d
		C) OMP get Nester	i	D) OMP NUM	I THREADS
	iv)	Important application	of parallel computing	_	_
		 A) Scientific applica 		B) Weather for	ecasting
		C) Analyzing biolog	/ / -	D) All of above	-
ь.	Br	iefly explain the scope of	of parallel computing.	<i>'</i>	(06 Marks)
c.				prime number us	sing the method seive of
	era	stosthenes.			(08 Marks)
d.	Lis	st any four openMP libra	ary functions.		(02 Marks)
		and a	•		
		1			
			SoCi;;;		
		c	HIRODI		
			BRARY o		
		nr	cat En9S		
			CHC E/H/O		