

10CCP13/23

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Firs cond Semester B.E. Degree Examination, June/July 2019

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				
1 a. Ch	oose the correct answers f	for the following :		(04 Marks)			
	i) Which of the following is not a multiuser computer						
	A) PC	B) Minicomputer	C) Mainframe	D) Super Computer			
ii) Transistor invention falls under the generation							
	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 Printer			
	iv) Binary equivalent of 2I	3 is	,	,			
	A) 0010 1011	B) 0011 1010	C) 0001 lol 1	D) 0100 1011.			
b. V	Vhat is cache memory? How	w its presence affects t	he speed of processi	*			
	Vhat is firmware? How is it						
	Vhat are the different types		_				
	,			(* * * * * * * * * * * * * * * * * * *			
2 a. Ch	oose the correct answers f	for the following:		(04 Marks)			
	i) Identify the odd term ar			,			
	A) Coaxial Cable	B) Optical Fibre	C) Twisted Pair	D) Micro Wave			
	ii) Hard disk can serve as	C/F	-,	,			
	A) Input Media	B) Output Media	C) Storage	D) All of Above			
	iii) Which of the following						
	A) Operating System		B) Compiler	.			
	C) DBMS	D) Command interpreter					
	iv) Which of following is a	not an application softy	· -				
	A) Word processor I		C) UNIX	D) Disk top publisher			
b.	Describe the major differen	_					
				(06 Marks)			
c.	Explain the memory manage	gement functions of O.	S.	(06 Marks)			
d. What is computer network? Mention the layers of OSI — model.				(04 Marks)			
	-	·					
3 a. Ch	oose the correct answers	for the following:		(04 Marks)			
	i) Which of the following	C	of software				
	A) Understandability		C) consistency	D) All of above			
	ii) In which phase of softv	· · · · · · · · · · · · · · · · · · ·		into object code.			
	A) Compilation	B) Linking	C) testing	D) Integration			
	iii) Oval sign on a flow cha	,	, 6	, 0			
	A) End	B) Start	C) Both A and B	D) None of above			
iv) Which of the following is not a key word in 'C'							
	A) int	B) char	C) while	D) sqr.			
b.	List the steps involved in p		<i>'</i>	· -			
C.	Draw a flow chart to find la			(04 Marks)			
d.	What are identifiers? Give	O		(04 Marks)			

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4 a. Choose the correct answers for the following: i) What is the value of term in the statement term		* *
A) 0.5 B) 0.0		D) 0.1
 ii) If 'x' is variable of type int, the value return A) 1 B) 2 Break statement transfers the control 	C) 8	D) 4
A) Out of block B) Out of function iv) If i = 1, then the output of printg"%d", i++	, 1	D) None of above
A) 1 B) 2	C) 0	D) none of above
b. Write a program to print roots of quadratic equa		(08 Marks)
 c. Explain ternary operator, with a sample code set d. Convert the following into 'C' equivalent. 	egment.	(04 Marks)
$A_{)}x + y - P$ $B_{)} \xrightarrow{(a+b)'}$ $(a-b)'$		(04 Marks)
PART	Γ —B	
5 a. Choose the correct answers for the following:		(04 Marks)
i) The arguments in the function call are called	ed	,
A) Formal parameters	B) Actual parameters	
C) Variables	D) None of above	
ii) Functions in 'C' should have at least	C) Towns and a	D) None of chave
A) No argument B) One argument iii) printa) function is in built-in hea	C) Two arguments	D) None of above
A) stdlib.h B) stdio.h	C) conio.h	D) math.h
iv) Global variables are accessed to	e) comon	<i>2)</i>
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 pro	duct of two numbers.	(04 Marks'
6 a. Choose the correct answers for the following:		(04 Marks)
i) Which of the following 'C' statement bran-	ches unconditionally from	
another point	·	•
A) if B) switch	· C) goto	D) while
ii) The statement in 'C' which skips the re- iteration is	•	
A) Break B) Continue	C) exit()	D) switch()
iii) Which of the following control structure u		D) cwitch
A) while B) for iv) Recursive function will have	C) if-else	D) switch
A) Call to itself	B) Terminating cond	lition
C) An argument	D) All of above.	
b. List the different if statements, write 'C' program	,	tatements. (08 Marks)
c. Differentiate between do-while loop and for-lo		(04 Marks)
d. Write a program in 'C' to find factorial of 'n:.r	nitirber using recursion.	(04 Marks)



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7 a. Cl	hoose the correct answer	rs for the following		(04 Marks)		
	i) Subscripted variable	es are called as				
	A) Identifier	B) structure	C) Array	D) Array of structure		
	ii) Array name can also	be used as	-			
	A) Pointer variable	e B) Base address	C) Variable	D) Constant		
	iii) A string can be a arr	ray of				
	A) Alphabets	B) Special characte	ers C) Digits	D) All of above		
	iv) End of string is mar		, 0			
	A) In	B)\0	C) \b	D) 1s.		
b.						
c.	Explain with an example	e to declare and initialize	e a string.	(04 Marks)		
d.	Given array of n element		•			
	·	, 6		_ , , ,		
8 a. Ch	noose the correct answer	rs for the following:		(04 Marks)		
	i) Parallelism means					
	A) Having multip	rocessors				
	b) Dual core proce	essor				
	c) Concurrently ex	xecuting instruction on a	single cpu			
	d) All of above					
	ii) Open MP is an					
	A) Operating syst	tem B) Framework	C) API	D) None of above		
	iii) Which of the followi	ng is not an openMP va	riable			
	A) OMP OYNAN	MIC	B) OMP_Neste	ed		
	C) OMP_get_Nes	ted	D) OMP_NUM	I_THREADS		
	iv) Important application	n of parallel computing				
	A) Scientific appl	ication	B) Weather for	ecasting		
	C) Analyzing biol	ogical sequences	D) All of above	<i>2.</i>		
b.	Briefly explain the scope	e of parallel computing.		(06 Marks)		
c.	Write a program using	g openMP to generate	prime number u	sing the method seive of		
	erastosthenes.		-	(08 Marks)		
d.	List any four openMP li	brary functions.		(02 Marks)		
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