		10CCP13/23
TICN		
USN		4010

First/Second Semester B.E. Degree Examination, Dec.2017/Jan.2018 Computer Concepts and C Programming

	Max. Marks: 100
Time: 3 hrs.	
Time. 5 ms.	THE Coll questions choosing at least two from each part.

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

					PART - A		(04 Marks)
1	l	a.	Choo	se the correct answe	rs for the following:	1 10-/674	(0111200-00)
	Į.	a.	i)	The common keybo	ard arrangement is cance	C) QH (0 * 5/5"	D) QWERYT
			ii)	Which of these is a	computer for an organize B) Work station	C) 100100	D) Main frame
			iii)	Which of these key	s is not called modifier k	$\mathcal{Q}_{\mathcal{I}}$	D) START
			iv)	Which of these is a A) PDA	n example of handheld P	B) Minicomputer D) Micro computer	
						D) Micro computer	tal computer.
		b.	With	a neat diagram, exp	lain the information pro-	bessing cycle in a ab-	(08 Marks)
							(08 Marks)
		c.	List	and explain differen	t computers for organiza		(O4 Marks)
	_		Class	and the correct answ	vers for the following:		(04 Marks)
	2	a.	i)	Speed of the laser	printer is measured in to	C) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D) none of these
			ii)	Which memory lo	ses its data when power	(1,000,000	D) dynamic
			iii)	Which of the follo	wing magnetic storage of B) DVD	C) 1 11.511 11.10	D) Floppy disk
			iv)	Decimal Equivale	ent of binary number 11 B) 15	C) 10 800 (D) 14 (06 Marks)
		b.	Ex	plain the different type	pes of operating systems	· Nigh	(04 Marks)
		c.	Ex	plain about LAN and	I WAN. lain construction and wo	rking of Floppy disk	along with its capacity.
1		d.	Wi	th neat diagram, exp	lain construction and wo	TRING OXY AFTY	(06 Marks)
						Ç.	(04 Marks)
	3	a	. Cł i)	Which of the foll	wers for the following: owing symbol is used fo B) Rectangle	r processing? C) Circle	D) Rhombus
0			ii) 	Which of the fol	lowing is the identifier? B) char lowing is the valid floati	C) FLOAT ng point constant?	D) if
2. Ally 1			iii iv	A) 45, 35.98 The words which	B) 95 th have predefined mean	ing in C language are	D) 85E4 called D) functions
		ł	n W	A) keywords rite the syntax of fo	rmatted input and outpu	t statements. Explain	with an example to read (04 Marks)
		,	a n	efine algorithm and	flowchart. Draw the nov	V CTILLE I I	orial of a number. (07 Marks) in the identifier in the
			d. D	efine identifier. Wi	nat are the rules to be	followed while writ	ing the identifier in the (05 Marks)
			р	rogram?	1.0	of 3	

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4	a	a. Choose the correct answers for the following:	
		logical operator is FALSE when both the operands are I	(04 Marks)
		A) B) && C) both A and B	
		ii) Which of the following is not a valid expression?	D) !
		$\Delta V A \hat{v} = 10 - 6$ D) = 25	
		(iii) $4x = 10 = 6$ B) $x = 25$ C) $y\% = 5$ iii) If $x = 10$, $y = 20$ then the result of $(x > y)$? $x + y : y - x$; is	D) $x = x + 5$
		iv) Which of the following has the highest precedence?	D) 20
	b.		D) $++x$
		2, 0 0, 0 4 and 0 - 10. What is the result of each of the following	ng:
	c.	i) $a + b/c * d - c/a$ ii) $(b/a)\%c$ iii) $a+++b+d++$	(06 Marks)
		c. Classify the operators based on the number of operands and given one ex	ample for each.
	d.		(06 Marks)
	٠.	d. Explain the following bitwise operators with one example for each:i) Left shiftii) XOR	
		n)XOR	(04 Marks)
		DADE D	
5	a.	a. Choose the correct answers for the following: $\frac{PART - B}{FR} = \frac{PART - B}{FR}$	
		i) Actual and formal parameters should match in	(04 Marks)
		A) number D) to me	
			D) all of these
		is optional.	
		b) parameter data type	,
		A) return: D) return statement and function has error?	
			D) none of these
		A) gets()	
	b.		D) main()
	c.	Write a C program to read the N purchase and C 1 defending.	(07 Marks)
		" o program to read the N humbers and find the moon would	ance and standard
		deviation of N numbers by writing the following functions: (i) Me	an (ii) Variance
		(iii) Standard deviation where mean = $\sum_{i=1}^{N} \frac{X_i}{N}$, variance = $\frac{1}{N} \sum_{i=1}^{N} (X_i - X_i)$	$man)^2$
		$\sum_{i=1}^{n} N^{i}, \text{variance} N_{i} \geq 1$	- mean), standard
		$deviation = \sqrt{variance}$	
		그 그 그 이 사용하다 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	(09 Marks)
6	a.	Choose the correct answers for the following:	
		i) Which of the following is the entry controlled loop?	(04 Marks)
		ii) In the ternary operator conditional expression using '?:' could be expression using '?:'	both A and B
		statement.	easily coded using
		A) if B) switch C) if else	N -1 101 11
		iii) The least number of times the do-while loop will be executed in)) else it ladder
		A) 0 B) 1 C) 2	<u> </u>
	<	A) if B) switch C) if else iii) The least number of times the do-while loop will be executed is A) 0 B) 1 C) 2 iv) Identify the unconditional branch statement.	none of these
	2	A) break B) continue (C)	
	b.	With neat syntax, explain switch statement.) all of these
			(06 Marks)
	c.	Write a C program to compute the sum of PI series: $PI = \sqrt[2]{\frac{6}{1^2} + \frac{6}{2^2} + \dots + \frac{6}{n^2}}$	(05° NA
		$V1^2$ 2^2 m^2	. (05 Marks)

		' 4 the following nattern'	(05 Marks)
(d	Write a C program to print the following pattern:	
		* * * *	7
			,
		A suggest for the following:	(04 Marks)
7	a.	Choose the correct answers for the following: i) The size of the string "CSEISE" is	
		i) The size of the string CSETSE is C) 3 D) 4	a on
		1) / lements of the array depend	one of these
		iii) An array is a size sequential concerton of variable different	22
		A) variable, same	
		C) fixed, same $\frac{1}{2} = \frac{1}{2} =$, 3, 2, 1}. The
			M[2][2]
	b.	A) M[3][3] B) M[3][2] C) M[2][5] Explain the declaration and initialization of one dimensional array with exam	(08 Marks)
	υ.	Write a C program to read N × N matrix and find the sum of primary diagonal	l elements.
	c.	Write a C program to read N × N matrix and risk the	(08 Marks)
			(04 Marks)
8	a.	Choose the correct answers for the following: i)execution of instructions in a computer is referred to as parallely	
		execution of instructions in a compared is test and in the compared in the com	all of these
		A I SHIIIIII alicous	
		ii) An Open MP stands for A) open multi parallelism B) open multi processing D) open multi tasking	
			disables nested
		C) open multi programming D) open multi programming D) open multi tasking Which of the following open MP environmental variables enables of	disables hester
		parallelism? A) OMP_nested B) OMP_set_nested C) OMP_get_nested D)	none of these
		iv) Which of the following is not synchronized (C) section (D)	critical
	1.	A) single processing What is the motivation for concurrent process	sing? (10 Marks)
		Explain scope of parallel computing.	(00 Marks)
	C	·) / \
		****	30) 20.
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