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First/Second Semester B.E. Degree Examination, June/July 2017 Computer Concepts and C Programming

Time: 3 hrs.	Max. Marks:100
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Note: Answer any FIVE full questions, choosing at least TWO from each part.

PART - A

1	1 a. Choose the correct answers for the following:i) Which of the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions that help compared to the following device stored instructions device the following device stored instructions device to the following device stored in the following device store				(04 Marks)	
		A) Joy stick B) RAM	C) ROM			
		ii) Who is called the father of computer?	C) KOWI	D) Monitor		
		A) Balise Pascal	B) Charles Babb	000		
		C) Joseph Jacquard	D) Dr. Hewrman	•		
		iii) A collection of 8-bits is called	D) Di. Hewillai.	William Froncial		
		A) Byte B) Word	C) Record	D) File		
		iv) A computer resolution is determined by	c) Record	D) The		
		A) Monitor B) Video	C) CPU	D) System unit.		
	b.			(08 Marks)		
	c.			(00 Marks)		
		ii) Convert the binary number 100011 to decimal		(04 Marks)		
	d	· · · · · · · · · · · · · · · · · · ·				
			que asea to anspia,	(04 Marks)		
				(=======,		
2	a.			(04 Marks)		
		i) The CPU uses a to store and retrieve	each piece of data	in the memory		
		A) Control unit B) Cache	C) Post	D) Memory location		
	ii) A magnetic Disk's tracks are divided into smaller parts called					
		A) Clusters B) Sectors	C) Bytes	D) Slices		
		iii) A distributed network configuration in which	ı all data informati	ion passes through center		
		computer is				
		A) BUS Network	B) Star Network			
		C) Ring Network	D) Point-to-Netv			
		iv) If you want to execute more than one progra	im at a time, the sy	ystem software you must		
		be capable of				
		A) Word processing	B) Virtual Memo			
		C) Compiling	D) Multi tasking			
	b.	, 3 ,	ifferent types of or	perating system based on		
		usage and requirement.		(08 Marks)		
	c.	What is OSI model? Explain principle used to dev	velop seven layers			
		×		(04 Marks)		
	d.	3 1				
		i) AMD ii) IBM.		(04 Marks)		

		Guide fallowing:	Marks)		
3	a.	Choose the correct answers for the following: i) The flowcharting symbol diamond shaped box indicates (C) Position (D) End			
		A) Start B) Process Step C) Decision D) End			
		ii) Which of the following are not valid identifiers			
		A) Student-Name B) Total C) Znames D) int			
		iii) DOS stands for			
		A) Distributed operating systems C) Priver operating systems D) Disk operating systems D) Diskless operating systems			
		() Diver operating systems			
		iv) Which of the following is an I/P function? A) Scanf B) printf C)puts() D) putchard	().		
	b.	7) Scaling Alexandre Symptons performed by the operating systems. (0)	4 Marks)		
	о. с.	and of notwork topology? Exhiain the following unicion not	working		
	•	Association :			
		i) Rus Topology II) Star Topology III) King Topology IV) West	. (08 Marks) (04 Marks)		
	d.	What is variable? Explain variable initialization.	,		
		Guitha fallowing:)4 Marks)		
4	a.	Choose the correct answers for the following.			
		A) Flowchart B) Program C) Instruction D) Algorit	hms		
		ii) Which of the following is not a valid assignment expression?	_		
		$D \setminus A Y = Q = Q \qquad D \setminus A Y = Q = Q \qquad D \setminus A = Q$			
		A) $X = 23$ B) $4X = 6$ 3 iii) An infinite loop in a program sequences, causes no output but creates error, v	viiat type		
		error is it? A) Syntax Error B) Logical Error C) Run-Time Error D) None of	of these		
		A) Syntax Error B) Logical Error C) Run-Time Error D) Note of iv) Which of the following has highest precedence?			
		A) Pre fix increment B) Multiply C) Modulus D) Assign	ment.		
	b	To this the following operators, with example:	anaratare		
		Deletional operator ii) Increment operator III) Conditional operator IV) Special	08 Marks		
		Write a flowchart to generate prime numbers between the limit N_1 and N_2 .			
		Write a flowchart to generate prime numbers between the minimary and $x = a + b = b = b$. What is the value of x? If $a = 100$, $b = 150$ and $x = (a > b)$? $a : b$;.	(02 Marks		
	u	What is the value of the way			
		PART – B			
			(0.4. 3.4 . 1		
5	a	a Choose the correct answers for the following.	(04 Marks		
		i) To read a single character, which of the following equation is used A) putchar() B) getchar() C) getch() D) putcher()			
		A) putchal () 15 Go its appropriate is known as			
		A) Inline Function A) Inline Function B) Nested Function			
		C) Over loaded Function D) Recursive Function			
		iii) Arguments of a function are separated with			
		A) comma (,) B) semicolon(;) C) colon(:) D) None	of these		
		iv) Which operator has the highest procedures			
		A) + B) * C) ++ D) >>	(0.4.3.4 : 3		
	1	b. What is difference between IF-ELSE and Switch statement?	(04 Mark (08 Mark		
		c. Explain with an example the different ways of passing parameter to function.	(08 Mark		
		d. Write a C program to find the largest of their integers with appropriate message.	(04 1/1011)		

			2 1 6 11 1		(04 Marks)
6	a.	Choose the correct answers i) Determine how many	for the following:	loon is executed in	
			times the body of the	100p is executed in	tin Breeze (D
		segment			
		int $x = 5$, $y = 50$;			
		while $(x < = y)$			
		$\begin{cases} X = y x; \end{cases}$			
		}			D) E
		A) 0	B) 1	C) Infinite	D) Error
		ii) Which of the following	is not a relational oper	ator?	D) > =
		A) <	B) < =	C) =	D) > -
		iii) Given a for loop as:			
		for $(i = 1; j < = 32; y)$			
		printf ("%d", i) if this for loop must pro	sduce an oln of 1.2	4 8 16, 32, which of	the following must
			judee an orp of 1, 2,	,, -, , ,	
		replace y? A) $i = i + 2$	B) $i = i \times 2$	C) $i = i/2$	D) None of these
		iv) Which statement is ca			
		A) goto	B) continue	C) break	D) switch.
	b.	Evaluin the logical operato	ors used in C.	1	(06 Marks) (04 Marks)
	c.	Write a recursive function	to find the factorial of	a number.	(06 Marks)
	d.	Using flowchart and syntax	x, explain prefest and p	iosticst loops.	•
_		Choose the correct answer	rs for the following:		(04 Marks)
7	a.	i) Array is which data ty	rpe?		
		A) built in	R) user defined	C) primary data type	D) derived datatype
		is an integral v	value used to access ele	ement of an array	D) index
			III alamaant	t i varianic	of statement m[2][2]
		A) constant iii) The statement int m[3	$[5] = \{\{0\}, \{0\}, \{0\}\}\}$; is used and the value	, 01 Statement[][]
		will be	B) 3	C) 2	0 (C
		A) 1 iv) The process through v	which data are arrange	d according to their val	ues is known as
		A) Amanaina	R) Searching	C) Listing	3) 0.000
	b	·	I lourante of an arr	ay using bubble sort.	(08 Marks)
	U	Write a C program to sort What is an array? How	do you declare and i	nitialize ONE and I	(08 Marks)
	c	Explain with example.			(UO MAINS)
			Conthe following:		(04 Marks)
8	3 a	a. Choose the correct answer	execution of i	nstructions in a compu	iter system
		ii) The process of split	tting a lengthy and co	omplete program into	a number of smaller
		programs is called			
		A) Unit program	B) Modular progra	m C) Build-In prograi	m D)Logical program
		iii) Identify mathematica	al function in the follow	ving: C) fabs()	D) main()
		A) alegar()	B) printi()	C) 1aU3()	
		iv) A variable declared	B) public	C) global	D) Local.
		A) personal b. What are threads? Highl	· Little mood of thread	, 5	(08 Marks)
		to the contract of the contract	tives which help in syn	chronization of task? F	Explain in detail. (08 Marks)
		c. What are open mp direct	•		(US MIARKS)