SEE - November - December 2015

a) Explain with suitable example initialization of one-dimensional array and two 8.

b) Explain any four string handling functions in'C'. Write a C program to find if string is palindrome. is palindrome or not.

- Unit V a) Explain with an example, how opening and closing of file is performed. 9.
 - b) Define Pointer. How to initialize pointer variable?
 - c) Define a structure. Give its general syntax and explain with an example.
- 10. a) Write a program in C to exchange the values stored in two locations in the memory, using pointer.
 - b) Write a note on Arrays of Structures.
 - c) Discuss getc and putc functions with suitable example.

BT* Bloom's Taxonomy, L* Level

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NMAM INSTITUTE OF TECHNOLOGY, NITTE

An Autonomous Institution affiliated to VTU, Belagavi)

First Semester B.E. (Credit System) Degree Examinations November - December 2015

15CS111 - COMPUTER CONCEPTS AND 'C' PROGRAMMING

D	ıratio	n: 3Hours	x. Marks	: 100	
		Note: Answer Five full questions choosing One full question from each U	nit.		
		Unit – I	Marks	BT*	
1.	a)	Differentiate between the following			
		Secondary memory and primary memory			
	h)	ii. Application software and System software.	8	L.5	
	c)	List any functions of operating system. Explain working of CRT monitor with a neat diagram.	6	L2 L2	
là:	-,	Thomas with a near diagram.	9	LZ	
2.	a)	List the different types of computers. Explain types of computers that are		L1	
		designed for use by organizations.	S	L2	
	b)	The state of the s	•	L1	
	c)	diagram.	6 6	L2 L2	
	٠,	Explain the various factors affecting the processing speed of a computer.			
R		Unit – II			
3.	a)	List out the various symbols used in the flowchart. Design an algorithm &		L1	
H	Ü.,	flowchart to calculate factorial of a number.	10	L6	
	b)	What are variables? Discuss how variables are declared & initialized in C.	4	L2 L2	
	c)	Explain the following i. Relational Operator ii.Logical operator iii. Assignment Operator	·		
		1. Relational Operator II. Logical operator III. 7 losigimon operator			
1.	a)	Differentiate between Keywords and Identifiers.	4	L4	
	b)	What are constants? Explain the different types of constants in C.	8		á
	c)	Evaluate the following expressions: i=3, j=4, k=2	٥	, L3	4
70		(i) $i++-j-$ (ii) $j+1/i-1$ (iii) $j++/i-$ (iv) $++k\%j$			
		Unit – III			
	2)	Explain the format for standard output function along all the options with an			
).	a)	example	10	L2	
	b)	example Design and develop a C program to find a year is leap year or not using if – else	E	3 L5	
	٥,	statement statement a bad programming practice with a suitable			
	c)	statement Justify why a goto statement is a bad programming practice with a suitable		: L6	
	•	example.		5 L2	
	`.		,		
•	a)	Write a flow chart for if - else statement. Design and develop a C program to find the given number is an armstrong print the suitable message			
				8 L5)
		number or not and print the suitable message number or not and print the suitable message (Armstrong Number: 371 = 3*3*3+7*7*7+1*1*1 = 371) (Armstrong Number: 371 = 3*3*3+7*7*7+1*1*1 = 371) (Armstrong Number: 371 = 3*3*3+7*7*7+1*1*1 = 371) Compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is ASCII value and print the suitable compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a program in C to find the given input character is a vowel or compute a vow	r		
	c)	Compute a program in C to find the suitable compute and print the suitable	•	6 1.4	
	C)	(Armstrong Number, 37) Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of Compute a program in C to find the given input character is a vower of C to find the given input cha			
		CCCAMPS		12	
4		conclions with example for each.	. 1	<i>y</i>	
		Explain the different categories of functions with example for each. Explain the different categories of functions to perform linear search for a given integer of a C program using functions to perform linear search for a given integer of perform linear search for a given integer of function.	100	16	
	a)	Explain the different categories of functions to perform linear search for a given integer Design a C program using functions to perform linear search for a given integer Design a C program using functions and report success or failure in the in a single dimensional array of numbers and report success or failure in the in a single dimensional array of numbers array as a parameter to a function.	6		7
	b)	Design a dimensional array of many	4		
		in a single message. P.T.O.			
		Design a C program to a function in a single dimensional array of numbers array as a parameter to a function. F.T.O. Explain with an example, how do you pass array as a parameter to a function.	6		A
	c)	Explain	100	1	
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