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Bloom's Taxonomy, L\* Level

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Max. Marks: 20

NMAM INSTITUTE OF TECHNOLOGY, NITTE

(An Autonomous Institution affiliated to VTU, Belagavi)

NITTE Sem B.E. (Credit System) Mid Semester Examinations - II, March 2017

16CS111 - COMPUTER CONCEPTS	AND 'C'	<b>PROGRAMMING</b>
1003111 - COMIT OTEN COMOET 10		

100	• 1-514.5		Max. Mark	S: 2	20
rai	ion:	1 Hour			
B		Note: Answer any One full question from each Unit.			
- 1		Unit – I	Marks	В	T*
	a)	a second of user defined functions with proper	4	L	.*4
	b)	Consider the following string initializations; char s1[20] = "BeginnersBook"; char s2[20] = "BeginnersBook.COM"; Write the output of the following string handling functions with justifications: i)strncmp(s1, s2, 8); ii)strncat(s1,s2, 3); iii)strcpy(s1,s2); iv)strstr(s1,"Book");	6		L6
	a)	Explain the initialization of one dimensional and two dimensional arrays with suitable examples.	•		L3
	b)	Write a user-defined function to perform bubble sort in an ascending order for a given input array of n elements and also show the number of passes on the input elements 50,40,1,20,10.	5		L5
		Unit II			
	a)	What is pointer in C? Explain the declaration and initialization of pointe variables with example.	3		L2 L3
L	b)	Explain the file handling function fopen() with proper syntax and example an also mention the different modes of operations in files.	d 4	1	L1
	a)	to the service of with suitable examples		5	L2
	b)	a seed N integers into an array and find the sum of cicincin	.S	5	L5

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#### MAM INSTITUTE OF TECHNOLOGY, NITTE

(An Autonomous Institution affiliated to VTU, Belagavi)

Il Sem B.E. (CSE) Mid Semester Examinations - I, February 2017

### 16CS111 - COMPUTER CONCEPTS AND C PROGRAMMING

Dura	tion:	1 Hour Max. M	larks:	20	
		Note: Answer any One full question from each Unit.			
		Unit – I Ma	arks	BT*	
1.	a)	Give rules for framing variable name in C. Identify the valid variable names from the list given below:  i. int_float  ii. price\$  iii. char  iv. num_1  v. 5num  vi. Group one	5	L•4	
	b)	Define Algorithm. Design an algorithm and flowchart to accept the year as the parameter and check whether the year is a leap year or not.	5	L5	
2.	a)	Describe the Structure of C program with programming example.	4	L2	
	b)	Evaluate the following expressions:  i. a + 2 > b && !c    a != d && a - 2 <= e where a=10, b= -6, c=1, d=10, e=5  ii. x=(-x)-(x) where x=5  iii. a+=(a++)+(++a) where a=3	6	L	5
		Unit – II			
3.		Explain the following unformatted Input/Output function with programming example for each.  i. getchar() ii. putchar() iii. getch() iv. getche() v. gets() vi. puts()		6	L2
	b)	Write a program to find the reverse of a given number and check whether its a palindrome or not. Also, Check if the number entered is a negative number and display an appropriate error message for the same.		4	L5
4.		Explain else if ladder statement. Design a C program for simulation of a simple calculator using else-if-Ladder.	2	6	
	b)	Differentiate between the Pre-test and Post-test loop.		4	L2
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# NMAM INSTITUTE OF TECHNOLOGY, NITTE

I Sem B.E. (Credit System) Mid Semester Examinations - II, October 2017

## 17CS111 - COMPUTER CONCEPTS AND 'C' PROGRAMMING

Jul	auor	I: 1 Hour	Max. Mark	s: 20
		Note: Answer any One full question from each Unit.		
1.	a) b)	Unit – I Write a C program to find largest of 3 numbers using nested if. else statements. Explain the general form of switch statement with an example.	Marks 5 5	BT* L*3 L2
2.	a) b)	Explain formatted output with suitable examples.  Write a C program to generate multiplication table of a number using for loop.	5 5	L2 L3
lings.		Unit – II		

a) Explain the call by value concept in function with a suitable example. 5 b) Write a C program to find the sum of diagonal elements in a matrix, print a suitable message if a matrix is non square matrix. 5

a) Write a C program to perform binary search on unsorted elements. L4 L3

b) Explain elements of user defined function.

BT\* Bloom's Taxonomy, L\* Level