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**NMAM INSTITUTE OF TECHNOLOGY, NITTE**  
(An Autonomous Institution affiliated to VTU, Belagavi)  
**Third Sem B.E. (Credit System) Mid Semester Examinations - II, March 2017**

**16CS111 - COMPUTER CONCEPTS AND 'C' PROGRAMMING**

Duration: 1 Hour

Max. Marks: 20

**Note: Answer any One full question from each Unit.**

**Unit - I**

**Marks BT\***

- a) Define function? Illustrate the elements of user-defined functions with proper syntax and example. 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); 6 L6  
ii)strncat(s1,s2, 3);  
iii)strcpy(s1,s2); 5 L3
- a) Explain the initialization of one dimensional and two dimensional arrays with suitable examples. 5 L5
- 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.

**Unit - II**

- a) What is pointer in C? Explain the declaration and initialization of pointer variables with example. 3 L2
- b) List out the difference between arrays and structures. 3 L3
- c) Explain the file handling function fopen() with proper syntax and example and also mention the different modes of operations in files. 4 L1
- a) Discuss the structure definition and different methods of structure variable declarations with suitable examples. 5 L2
- b) Write a C program to read N integers into an array and find the sum of elements using pointers. 5 L5

Bloom's Taxonomy. L\* Level

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Max. Marks: 20

Marks BT<sup>®</sup>Marks BT<sup>®</sup>

- Unit - II

Unit - II

- 3T\* Bloom's Taxonomy, L\* Level

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**NMAM INSTITUTE OF TECHNOLOGY, NITTE**  
(An Autonomous Institution affiliated to VTU, Belagavi)  
**I Sem B.E. (Credit System) Mid Semester Examinations - II, October 2017**

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

Duration: 1 Hour Max. Marks: 20

*Note: Answer any One full question from each Unit.*

**Unit - I**

- |    |   |       |     |
|----|---|-------|-----|
| 1. | a) Write a C program to find largest of 3 numbers using nested if..else statements. | Marks | BT* |
|    | b) Explain the general form of switch statement with an example.                    | 5     | L*3 |
|    |   | 5     | L2  |
- |    |   |   |    |
|----|---|---|----|
| 2. | a) Explain formatted output with suitable examples.                               | 5 | L2 |
|    | b) Write a C program to generate multiplication table of a number using for loop. | 5 | L3 |

**Unit - II**

- |    |   |   |    |
|----|---|---|----|
| 3. | a) Explain the call by value concept in function with a suitable example.   | 5 | L3 |
|    | 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 | L3 |
- |    |   |   |    |
|----|---|---|----|
| 4. | a) Write a C program to perform binary search on unsorted elements. | 6 | L4 |
|    | b) Explain elements of user defined function.                       | 4 | L3 |

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

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