Make up - January 2016

A.M. Hoffill

Design and develop a C program to find the GCD and LCM any two integers.

Compute a C program to find whether the given number is prime or not.

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Define a function. Explain elements of user defined functions with example. What are actual and formal parameters? Explain with an example, how do you have actual and formal parameters?

0 0 Design a C program using functions to read two matrices A and B and to

compute the product of A and B if the matrices are compatible for multiplication.

Define array. Illustrate with an example declaration and initialization of one

0 Design a C program to compare two strings without using built-in function dimensional array.

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0 Mean= sum/n, variance= $\sum (x - mean)^2/n$, Standard deviation = $\sqrt{variance}$ mean, variance and standard deviation. a C program to input N real numbers in 1-D array. Compute

Unit - V

a what is the necessity of a Structure? Demonstrate the use of "Array of Structures" by creating a structure Student having Name and USN. Store the details of 5 students by accepting input from the User.

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0 such as Name, Id, Salary and Date. The Date member should be a structure How is an Array different from a Structure? What do you mean by Nested with the details such as date, month and year. Store values for one employee Structures? Write a 'C' program having a structure for storing Employee details and display the details.

10. a What is a Pointer? Write a 'C' program to demonstrate "pass by reference" to Summarize the operations that can be performed on files and give the corresponding C language functions to perform the operations.

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BT* Bloom's Taxonomy, L* Level

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WMAM INSTITUTE OF TECHNOLOGY, NITTE (An Autonomous Institution affiliated to VTU, Belagavi) First Semester B.E. (Credit System) Degree Examinations Make up Examinations – January 2016 15CS111 – COMPUTER CONCEPTS AND C PROGRAMMING

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Explain dangling else and null else problem with suitable example. Explain dangling else and null else problem with suitable example. Design and develop a C program to find a whether the given number is palindrome or not. Print the suitable messages palindrome or not. Print the suitable messages compute a C program to read any integer from a user until a negative number. Compute a C program to read any integer from a user until a negative number is entered and print the sum and average of entered numbers. Compute a C program to read any integer from a user until a negative number is entered and print the sum and average of entered numbers.	{ int a,b,c; float x,y,z; a=10; b=5; c= b/a; z= b/a; y= float (b/a); z= (b/((float)a)); } int c,x; float x,y,z; c= 25/10 + 6.5; c= 25/10 + 6.6; x= 25/10 + 6.6; x= b/a; z=25/10 + (float) 6.6; z=25/10 + (f	Differentiate between algorithm & flowchart. Explain the basic datatypes supported in C language. Determine the final values of variables c, x, y, z in following programs #include <stdio.h> int main() [</stdio.h>	Unit — II Discuss type conversions in C. What are C tokens? Illustrate various types of C tokens with example. Give the rules for evaluating arithmetic expressions with example.	a computer?Explain informa	Explain the standard keyboard layout. Discuss the working of keyboard. List different types of printers. Explain the working of laser printer with a neat diagram.	With a neat diagram explain the functional units of a computer system. Explain working of OCR with a neat diagram.	List the different types of magnetic storage devices. Explain any two magnetic storage devices.	Note: Answer Five full questions choosing One full question from each Unit.	15CS111 - COMPUTER CONCEPTS AND C PROGRAMMING
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Write a C program to input N real numbers in 1-D array. Compute mean, SEE - April - May 2016

Write a C program using functions to read two matrices A $(M \times N)$ and B $(P \times Q)$ and to compute the product of A and B if the matrices are compatible for multiplication variance and Standard Deviation. Mean = sum/N, $Variance = \frac{\Sigma(x_i - mean)^2}{N}$

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Write a C program to enter the information like name, register number, marks in

6 subjects of N students into an array of structures, find the average & display grade based on average for each student.

Average Grade

80 -100 60-79 40 -59 Distinction

Second Class First Class

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Compare array and structure. Explain copying and comparing the structure variables. Illustrate with an example.

10. a How pointer variables are declared and accessed in a program? Write a 'C' program to read N integers into an array A and find the sum of elements using

pointers.

Write a 'C' program to copy contents of one file to another file.

BT* Bloom's Taxonomy, L* Level

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Make up / Supplementary - July 2016

Define array. Illustrate with an example declaration and initialization of one

Design a C program to input N integer numbers into a single dimensional array, Design a C program to concatenate two strings without using built-in function.

vsort them in ascending order using selection sort technique and then print both

given array and sorted array with suitable headings.

Unit - V

Discuss with an example, how arrays of structures concept can be used in C.

Differentiate between arrays and structures. Give a general format of a

structure definition.

Define Pointer. How to declare and initialize pointer variable?

Write a program to compute the sum of all elements stored in an array, using Give general format for declaring and opening a file. Discuss any six file handling functions available in C library.

10.

Write a note on pointer expressions.

BT* Bloom's Taxonomy, L* Level

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Unit – IV Design a C program using functions to read the values into a 2 dimensional parameters of 2D array A, sum of all elements of 2D array A and print the results. The difference between actual parameters and formal parameters? What is the difference between actual parameters and formal parameters with an example. P.T.O. Illustrate with an example.	product. Print the resultant product. Print the resultant the Compute a C program to find the sum of the digits in a single digit and print the Compute a C program to find the sum of the digits in a single digit and print the resultant value. (Hint: 731 = 7+3+1 = 11 = 1+1 = 2) (Hint: 731 = 7+3+1 = 11 = 1+1 = 2) (Explain break and continue statements with an example for each. Mention any 4 character test functions with an example for each. Mention any 4 character test functions with an example for each. Design and develop a program in C to find the list of prime numbers in between Design and develop a program in C to find the list of prime numbers in between the program of the resultant.	Describe the structure of C program and explain it with a program to find the area and perimeter of circle. Choose the incorrect floating point constants and give reasons for same i) 40,945.65 ii) 428.58 iii) 46E2 iv) 465. v) 46.3.9 What is type conversion? Explain the different type conversions with an example. Unit - III Explain switch statement with an example. Mention the any 8 rules for switch statement. Design and develop a C program to find a product of any 4 numbers entered. If the entered number is a 0 (zero), then it must be excluded for the calculation of the entered number is a 0 (zero), then it must be excluded for the calculation of the entered number is a 0 (zero).	List the different types of magnetic storage devices. Explain any two magnetic storage devices. What is an operating system? Explain the various types of operating systems. Explain the various factors affecting the processing speed of a computer. Unit – II Define Algorithm. Give the characteristics of algorithm. Identify the size of various data types in C on a 16 bit machine. Explain any five types of operators in C.	Note: Answer Five full questions choosing One full question from each U. What is an optical input device? What are the various optical input devices? With a neat diagram explain information processing cycle. Explain how computer accepts input from the keyboard with neat diagram.	NMAM INSTITUTE OF TECHNOLOGY, NITTE (An Autonomous Institution affiliated to VTU, Belagavi) First / Second Semester B.E. (Credit System) Degree Examinations Supplementary Examinations - July 2016 15CS111 - COMPUTER CONCEPTS AND 10 PROGRAMMING
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BT* Bloom's Taxonomy, L' Level

First Semester B.E. (Credit System) Degree Examinations.

November - December 2016

16CS111 - COMPUTER CONCEPTS AND 'C' PROGRAMMING

Duration: 3 Hours Note: Answer Five full questions choosing One full question from each Unit. Max. Marks: 100

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Explain the following operators used in C. i) Arithmetic ii) Bitwise iii) Relational iv) Logical	a) Design a flowchart to find the roots of quadratic equation	Unit-II	Discuss how to scan an image.	Define an operating system. Mention the functions of an Operating System.	a) Explain how cache memory and registers affects the processing speed.	から 一日 はない 日本	Explain volatile and non volatile memory.	List various printers and depict how a laser printer creates a printed page.	a) Explain different types of monitors.	Unit-1
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	our rules for naming			in C with example	d) Determine the various types of constallis used in a second	
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List the different stages of SDLC.

identifiers.