10 8 BT* Bloom's Taxonomy, L* Level 9 C 0 000 Write a C program to transpose a matrix of order M x N and find the trace What is an array? Explain the declaration and initialization of 1-dimentional and Write a C function is Prime(num) that accepts an integer and return '1' if the function to generate prime number between the given range'. argument is a prime or a '0' otherwise. Write a program that invokes this Explain the two categories of argument passing techniques with examples. 2-dimentional array with example. Write a C program to enter the information like name, register number, marks in What are the advantages of using user defined functions? 6 subjects of N students into an array of structures, find the average & display What is a file? Explain fopen() and fclose() function in C What is a structure? Explain the syntax of structure declaration with example. What is a pointer? Explain how the pointer variable is declared and initialized. Explain how structure variable passed as a parameter to a function with grade based on average for each student. Explain the concept of array of structure with a suitable example. Distinction | First Class | Second Class 80 - 100 | 60-79 ******** 40-59 Make up/Supplementary - July 2018 Fail <40 IF IE CHW ration 0000000 000

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Unit – IV a) Explain any four string manipulation functions with example	example. c) Explain the syntax of nested if else statement. Write a C program to find largest of three numbers using nested if-else statement.	 a) Write a C program to find if a given string is a palindrome or not. b) Explain how break and continue statement are used in a C 	2 2	Unit – III a) Explain with examples formatted input and formatted output statements in C b) Explain switch statement with an example.	$iii) x = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$	a) List and explain any 5 operators used in 'C' programming language b) Explain with example the various constants available in C program. Convert the following mathematical expression into C expressions. i) $\frac{x}{b+c} + \frac{y}{b-c}$ ii) $area = \sqrt{s(s-a)(s-b)(s-c)}$	i) 1999_space ii) _apple iii) One-2 iv) for v) #12 vi) \$price viii) group one	a) What are Data types? Mention the different data types supported by 'C' language giving an example to each. b) Explain the structure of C program with an example. c) Here is the list of possible names for variables in C language. Which are valid pages and invalid names? If names are invalid explain why?	 a) Define Computer. Explain how data is processed in computer. b) Design a flow chart to find the roots of quadratic equation. (ax²+bx+c = 0) c) What is an Algorithm? Write an Algorithm to find largest of three numbers d) List the differences between RISC and CISC processors. 	unit – I a) Explain phases involved in Program Development Life Cycle in 'C'. b) Define Programming language. List any five programming language. c) Define an Operating System. Explain the types of Operating Systems	Note: Answer Five full questions choosing One full question from each Unit.	Eirst/Second Semester B.E. (Credit System) I Make up/Supplementary Examinations 17CS111 - COMPUTER CONCEPTS AND 'C' PI
unit – IV anipulation functions with example.	ted if else statement. Write a C program to find largest sted if-else statement.	if a given string is a palindrome or not. continue statement are used in a C Program with	n syntax. Explain the working of any one type of loop	Unit – III matted input and formatted output statements in C. with an example.	$b+\sqrt{b^2-4ac}$ $2a$	arators used in 'C' programming language. various constants available in C program. hematical expression into C expressions. $area = \sqrt{s(s-a)(s-b)(s-c)}$	ii) _apple iii) One-2 v) #12 vi) help+me viii) group one	Unit - II ntion the different data types supported by 'C' language h. program with an example. e names for variables in C language. Which are valid	how data is processed in computer, I the roots of quadratic equation. (ax²+bx+c = 0) ite an Algorithm to find largest of three numbers. en RISC and CISC processors.		questions choosing One full question from each Ur	GAn Autonomous Insulators First/Second Semester B.E. (Credit System) Degree Examinations Make up/Supplementary Examinations – July 2018 17CS111 – COMPUTER CONCEPTS AND 'C' PROGRAMMING Max.
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First Semester B.E. (Credit System) Degree Examinations

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Build a program in C to input 10 names to a file and print the service. Build a program in C to input 10 names to a file and print the service.	call by value and call by reference. pointers. Explain the basic operations of a pointer with a	Structured Variable with a suitable example. Write a program in C to store the marks of 3 subjects and to display write a program in C to store the marks of n students. Use concepts of the average and total marks of n students.	Define structures. Explain Declaration and Accessing the		n example.	a program in C to find the average of n numbers stored in an		explain them.	an example. Describe the two varieties of looping statements with an example. 8	Unit – II Outline the syntax of if–else and nested-if statement. Explain with	a) (2+3/4) (3-2 % 2) b) 2 & 3 4 List the rules for variable declaration. Explain with an example. Develop a program in C to show the use of all arithmetic operators. 6	Solve the following:	Develop a program in C to print your branch, name and email address.	With an example, explain conditional operator, increment and decrement operator and bitwise operator. 8	Explain the structure of a C program in detail.	rogram to print your home address.	With an example, explain the terms keywords, identifiers, Variables 8	Unit – I Marks Briefly Explain the complete steps to execute a program in C. 8	Answer Five full questions choosing Two full questions from Unit – I and Unit – II each and One full question from Unit – III.	3 Hours 18CS111 - 'C' PROGRAMMING FOR PROBLEM SOLVING
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Define an array. Explain the declaration and initialization of single dimensional SEE - April - May 2018

Explain any four string manipulation library function with proper syntax and

Explain the categories of user defined functions with an example for each.

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a) Write a C program to find length of a string without using the library function.
Write a C program to find the smallest element in an array. Define a function. Explain the elements of user defined function with suitable

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a 5 What is structure? Explain the syntax of structure declaration and initialization Explain the different modes of opening a file. Explain the following file I/O Unit - V

i) fopen() ii) fscanf() iii) fgets() iv) fprintf() v) fputs() Explain how pointers and arrays are related with an example.

Explain nested structure with an example.

Define file. Write a C program to read data from a file and write data to a file.

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Write a C program to swap two numbers using pointers.

BT* Bloom's Taxonomy, L* Level

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sum of 'N' natural numbers using write toop. List all the conditional control statements used in C. Write a C program to find the maximum of three numbers.	List the differences between while loop. Write a C program to find	Write the syntax of all looping control statements. Explain how break and	Unit – III List all branching statements. Explain any two with proper syntax and example. Explain switch case statement with syntax and example. Write a C program to find factorial of a number using all looping statements.	Write a C program to find minimum of two numbers using ternary operator. List all the operators used in C with one example for each. Explain the structure of a C program with an example.	e=++x + y++; d=x++ + e; printf (" %d %d %d\n", x, y, e, d); printf ("value of g=%f", g);	int x=25, y=10, e, d; float g: n=x*2/(float)2-13:	i) Indicate the output of the following code segment main()	What is an identifier? What are the rules to construct an identifier? Classify the following as valid/invalid identifiers. i) num2 ii) num\$1 iii) -2a.@c iv) a_2		Define program. Explain the types o Explain the components required fo Explain the various functions of an o	Unit – I What is problem solving? Explain the steps involved in program development What is an operating system? Explain types of operating systems. Briefly explain the important factors affecting processing speed.	Note: Answer Five full questions choosing One full question from each Unit.	'C' PROGRAMMING	Second Semester B.E. (Credit System) Degree Examinations April – May 2018
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