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			BT* Bloom's Taxonomy, L* Level; CO* Course Outcome; PO* Program Outcome	Develop a program to read Name, Address and Age of a student into a file and display it on screen.	With an example, explain how pointer variables are declared and	Explain how structure variables are compared. Illustrate with an	With an example, explain how you can store the name, age and marks of a student in a structure.	classify the different categories of user defined functions and	Which are the two categories of C functions? Explain with a neat		
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P.T.O.	 (ii) strncpy(str1,str2,n) build a C program to perform Linear Search for an element in an array and display success or failure depending on whether element is found or not. Also, give its flow chart. 	 a) Define array? Explain how you can access array elements. b) Explain the following string manipulation functions with examples (i) strcpy(str1,str2) 	 i. a) Illustrate the logic to find whether a string is a palindrome or not, using for - loop and while - loop. b) Explain conditional operator with an example. c) Describe while loop with syntax. Write a program to compute x to the power n using while loop. 	 b) What are character testing functions? Explain any four functions. c) Build a C program to find if a given number is a palindrome or not. d) Explain unconditional branching control statement with an example. 	3 4. a) List Unformatted Input - Output functions in C? Explain with	 a) Explain the classification of constants in C with a neat diagram. b) List and explain any six rules for forming variables. c) What is the value of c and d below: (i) int a,b,c; a=17; b=4; c=a/b; (ii) int a,b,d; a=17, b=4; d=a%b; 	 (i) int break; break=break+1;printf("%d",break); (ii) int 1stno; 1stno=5; printf("%d",1stno++); 	 2. a) Outline the basic structure of a C program. Explain with an example. 4. b) Identify at least four limitations of computers. 	 a) Describe the various steps involved in program development with a neat diagram. b) List and explain the types of programming languages. c) Explain any four features that would make a programming language easy and efficient to use. 	Five full questions choosing Two full questions from Unit – III. Unit – I	NMAM INSTITUTE OF TECHNOLOGY, NITTE NMAM INSTITUTE OF TECHNOLOGY, NITTE (An Autonomous Institution affiliated to VTU, Belagavi) (An Autonomous Institution affiliated to VTU, Belagavi) April - May 2019 April - May 2019 18CS111 - C PROGRAMMING FOR PROBLEM SOLVING NOTE: The second sec	
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c) Explain tr (i) st (ii) st c) Build a C array an element ii	2 2 2			2. fopen() 3. getc() b) Explain the two ways of passing parameters to functions. When do you prefer to use each of them, Illustrate with relevant examples? c) Outline and Write a C program to read N integers into an array A and find the sum of elements using pointers. BT* Bloom's Taxonomy, L* Level; CO* Course Outcome; PO* Program Outcome
a) Illustrate using for b) Explain c c) Describe the powe	2 3	2 2	7 8	 b) Develop and Write a C program to create a structure employee for a number of employees with members Employee id, name, designation and salary. Program must output the list of all the employees whose salary is less than 15000/ c) List the need of pointers in C. Explain pointers with steps involving their declaration and usage. 8. a) Explain the following file handling functions:
b) What arec) Build a Cd) Explainexample.		72	C)	
b) List and c) What is t (i) int a,b (ii) int a,b a) List Unft example:	D 600 600	222	40.00	9
		ಒ	œ	iv) strrev() 6. a) Develop a C program to find transpose of a matrix and also find its trace if it is a square matrix. b) Interpret the output of following statements in C, considering the
a) Outline t example. b) Identify a	4	5	co	c) Illustrate and Explain the following built-in suring interest in streng i
a) Describe a neat dia b) List and e c) Explain	ωω	22	തത	
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NMAM INSTITUTE OF TECHNOLOGY, NITTE (An Autonomous Institution affiliated to VTU, Belagavi)
First/Second Semester B.E. (Credit System) Degree Examinations

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Make up/Supplementary Examinations - July 2019

e: Answer Five full questions choosing Two full questions from Unit – I and Unit – II each and One full question from Unit – III.	18CS111 / 17CS111 - C PROGRAMMING FOR PROBLEM SOLVING 7 COMPUTER CONCEPTS AND 'C' PROGRAMMING Max. M
I and Unit - II each	GRAMMING Max. Marks: 100

	a) 65	 (e: Answer Five full questions choosing Two full questions from Unit – I and Unit – II each and One full question from Unit – III. Marks BT* CO* PO What are primitive datatypes and user defined datatypes in C? List 	nit - I and Unit - II each	BT*	co*
without using a temporary variable. Compare the following operators of C with examples for each. i) Logical AND and Bitwise AND ii) = and == operator iii) a++ and ++a Outline the structure of C program. Describe with an example a program for performing arithmetic operations (+, -, *, / and %) on two integer values. Solve the following expressions: i) a + 2 > b && !c a != d && a - 2 <= e where a=11, b=6, c=0, d=7, e=5	z e	and Explain primitive datatypes and user defined datatypes in or case and Explain primitive datatypes.	80	75	
Compare the following operators of C with examples for each. i) Logical AND and Bitwise AND ii) = and == operator iii) a++ and ++a Outline the structure of C program. Describe with an example a program for performing arithmetic operations (+, -, *, / and %) on two integer values. Solve the following expressions: i) a + 2 > b && !c a != d && a - 2 <= e where a=11, b=6, c=0, d=7, e=5	3	without using a temporary variable.	6	2	
ram. Describe with an example a tic operations (+, -, *, / and %) on && a - 2 <= e	0	Compare the following operators of C with examples for each. i) Logical AND and Bitwise AND			
ram. Describe with an example a tic operations (+, -, *, / and %) on && a - 2 <= e		ii) = and == operator iii) a++ and ++a	o	2	
&& a - 2 <= e	a)	Outline the structure of C program. Describe with an example a program for performing arithmetic operations (+, -, *, / and %) on two integer values.	00	2	
		Solve the following expressions: i) a + 2 > b && ic a i= d && a - 2 <= e where a=11, b=6, c=0, d=7, e=5			

iii Cormi	i) int	reasons.	Name the following identifiers listed below as valid of irrealid with	List all the rules for naming Identifiers in C.	where a=1, b=3, c=7	2 2
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what is the output of the following programs given below? i) #include <stdio.h></stdio.h>	Define constants in C. List and Explain with examples each type of	ii) s_num1
--	--	------------

int a = 5, b = 2; printf("%d", a++	ii) #include <stdio.h> int main()</stdio.h>
+ b);	

printf("%f", (float)9/5); return 0;

Outline the differences between declaration and definition of a variable. P.T.O.

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NMAM INSTITUTE OF TECHNOLOGY, NITTE
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First Semester B.E. (Credit System) Degree Examination

Bloom's Taxonomy, L* Level;	bescribe opening and closing or mass	initialized.			 b) Write a program to swap two numbers using function 	a) Interpret a function. Explain	with example.	 2-D array with suitable example b) Define string. List all string ma 		c) Illustrate the use of break statement with example	b) Develop a program to fin	a) Develop the syntax of di	c) Differentiate between while loop and do while loop	b) Construct C program to	a) Explain the formatted I/O example.	 b) Write a C program to add two numbers c) Write a note on type conversion. 		t. a) List all the operators use expression.	c) Describe various types of computers	b) Write a C program to comp	variable.	language with examples.	1. a) Explain the basic structure	lote: Answer Five full questions	uration: 3 Hours	First Semester
CO. Codise Carcolle, C. Comme	Cot Course Outcome: PO* Program Outcome		show how pointer variable is declared and	What is a structure? Explain the syntax of structure declaration in C	vo numbers using function.	Unit - III ain different type of functions based on		2-D array with suitable example. Define string. List all string manipulation functions. Explain any two	Define array. Write the syntax for declaring and initializing 1-D and		Develop a program to find the sum of N natural number using for	Develop the syntax of different branching statements and explain		implement commercial calculator using	Unit - II I/O functions of C language with syntax and	wo numbers.	n a = 9, b = 12, c = 3	operators used in C language and evaluate following	omputers.	Write a C program to compute simple interest. Draw flowchart for the	Explain the rules for constructing variables in C	primitive datatypes supported by C	Unit - I of C program with example.	choosing Two full questions from Unit - ne full question from Unit - III.	PROGRAMMING FOR PROBLEM SOLVING	First Semester B.E. (Credit System) Degree Examinations November - December 2019
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