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				S	ubje	ect (Code	: K	CS1	01T
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B TECH (SEM-I) THEORY EXAMINATION 2020-21 PROGRAMMING FOR PROBLEM SOLVING

Time: 3 Hours Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

•	Attempt all questions in brief.					
Q no.	Question	Marks	CO			
a.	Write the fundamental data type in C Programming and its range.	2	1			
b.	Write the algorithm for addition of two numbers.	2	1			
Э.	Define all Arithmetic operators.	2	2			
d.	Explain the need of break in switch statement with example.	2	2			
e.	Write the syntax of continue statement.	2	3			
f.	What is the difference between while and do-while loop?					
g.	Difference between structure and union.					
h.	Define Sorting Algorithm with example.	2	4			
i.	Define preprocessor and its usage in programming.	2	5			
j.	Write the advantage for the use of Linked list.	2	5			
**	SECTION B	I.				
•	Attempt any three of the following:					
Q no.	Question	Marks	CC			
a.	Brief the Generations of the Programming languages with examples.	10	1			
b.	What do you mean by Operands? Discuss the operator precedence and associativity of all the operators.	10	2			
c.	Define recursive function? Write a program to find the factorial of a number with recursive function.	10	3			
d.	Write the advantage of using array. Write the program for matrix multiplication of two matrix elements.	10	4			
e.	Explain file handling and write a program for copying the content of one file into another file.	10	5			
	SECTION C					
Q no.	Attempt any one part of the following: Question	Marks	CC			
	Write the short notes on (i) Compiler (ii) Interpreter (iii) Linker (iv) Loader	10	1			
a. b.	Brief the storage classes in C with proper example.	10	1			
		10	1			
• а.	Attempt any <i>one</i> part of the following: Write a program to find out the greatest number out of three numbers.	10	2			
b.	Explain different type of control statements used in c programming with example.	10	2			
•	Attempt any one part of the following:	10	_			
a.	Write a program to print the pattern: *** ** ** **	10	3			
b.	Write a Program to find the entered number is Palindrome number or not.	10	3			
	Attempt any <i>one</i> part of the following:	<u> </u>				
a.	Write a program two find out the odd and even number from the array elements and its count.	10	4			
b.	Explain the Selection sort with example.	10	4			
•	Attempt any one part of the following:					
a.	Explain dynamic memory allocation concept with proper example.	10	5			

Explain the different type of modes and I/O function in file handling.