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				Sur	уест	Co	ae: 1	703	101
Roll No:									

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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.	Marks: 10	0	
	SECTION A			
1.	Attempt all questions in brief.	$2 \times 10 = 20$		
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	
c.	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?	2	3	
g.	Difference between structure and union.	2	4	
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	
<u> </u>	SECTION B	1	1	
2.	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			
3.	Attempt any one part of the following:	Montra	CC	
Q no.	Question	Marks	CC	
a.	Write the short notes on (i) Compiler (ii) Interpreter (iii) Linker (iv) Loader	10	1	
b.	Brief the storage classes in C with proper example.	10	1	
4.	Attempt any one part of the following:	10		
a.	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	
5.	Attempt any one part of the following:	10	3	
a.	Write a program to print the pattern: ****	10	3	

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b.	* Write a Program to find the entered number is Palindrome number or not.	10	3	
		10		
6. a.	Attempt any <i>one</i> part of the following: Write a program two find out the odd and even number from the array elements and	10	4	
u.	its count.			
b.	Explain the Selection sort with example.	10	4	
7.	Attempt any one part of the following:			
a.	Explain dynamic memory allocation concept with proper example.	10	5	
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Explain the different type of modes and I/O function in file handling.

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