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Roll No:										

Printed Page: 1 of 1

B TECH (SEM-I) THEORY EXAMINATION 2020-21 PROGRAMMING FOR PROBLEM SOLVING

Time: 3 Hours Total Marks: 100

Attempt any one part of the following:

Explain the Selection sort with example.

Attempt any one part of the following:

a.

b.

b.

1. Q no. a. b. c. d. e. f. g. h.	Attempt all questions in brief. Question Write the fundamental data type in C Programming and its range. Write the algorithm for addition of two numbers. Define all Arithmetic operators. Explain the need of break in switch statement with example. Write the syntax of continue statement.	2 x 10 = Marks 2 2 2 2 2 2 2	20 CC 1 1 2 2 2
a. b. c. d. e. f. g.	Write the fundamental data type in C Programming and its range. Write the algorithm for addition of two numbers. Define all Arithmetic operators. Explain the need of break in switch statement with example. Write the syntax of continue statement.	2 2 2 2	1 1 2
b. c. d. e. f. g.	Write the algorithm for addition of two numbers. Define all Arithmetic operators. Explain the need of break in switch statement with example. Write the syntax of continue statement.	2 2 2	1 2
c. d. e. f. g.	Define all Arithmetic operators. Explain the need of break in switch statement with example. Write the syntax of continue statement.	2 2	2
d. e. f. g.	Explain the need of break in switch statement with example. Write the syntax of continue statement.	2	L
e. f. g.	Write the syntax of continue statement.		2
f. g.	•	2	1
g.			3
	What is the difference between while and do-while loop?	2	3
h.	Difference between structure and union.	2	4
	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		
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:		
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:	l	
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:	•	
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

Write a program two find out the odd and even number from the array elements and

Explain dynamic memory allocation concept with proper example.

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

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