PAPER ID: 0-47-1200

Roll No: | | | | | | | | | | | | | |

B TECH
(SEM II) THEORY EXAMINATION 2021-22
PROGRAMMING FOR PROBLEM SOLVING

Time: 3 Hours *Total Marks: 100*

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

1. Attempt all questions in brief. 2x10 = 20

Quest	Questions	CO
(a)	Differentiate between void and int datatypes.	1
(b)	Draw the Pyramid structure of memory hierarchy.	1
(c)	Describe the syntax and working of Ternary operator.	2
(d)	Write advantages of Switch statement.	2

(e)	Find the output.
	#include <stdio.h>
	int main()
	{
	int a=100;
	printf("%d\n"++1, a);
	printf("%d\nhow is ++%d"++3, a);
	return 0;
	}
		2

(f)	Define functions and its types.	3

(g)	Find the output.
	#include<stdio.h>
	int main()
	{
	int arr[]={10};
	printf("%d\n", 0[arr]);
	return 0;
	}
		4

(h)	Define time and space complexity. What is the complexity of bubble sort?	4

(i)	Find the output.
	#include<stdio.h>
	int main()
	{
	printf("%d", sizeof(void *));
	return 0;
	}
		5

(j)	What is the requirement of FREE() function in Dynamic memory allocation.	5

SECTION B

2. Attempt any three of the followings. 10x3 = 30

Quest	Questions	CO
(a)	Discuss the various symbols used in flow chart and Draw the flow chart to find the reverse of a number.	1
(b)	Illustrate the concept of type conversion and type casting with programs.	2
(c)	Write a program to print the pattern 1 12 123 1234 123 12 1	2

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