



Final – Term Examination Summer 2020
Date: 26/09/2020

Course Code: CSC102 Course Title: Programming Fundamentals
 Prerequisite: NA Instructor: Engr. Muhammad Waqas
 Module: 2 Program: BEE Total Marks: 50 Time Allowed: 120 min

Note: Attempt all questions.

Q1.	(a)	Code a function that will return square of any integer number.	Marks 6
			CLO 2
	(b)	Code a program where you input two 3x3 matrices from user and output the sum in matrix form.	Marks 6
			CLO 1
Q2	(a)	Code a program to get the following series 65, 44, 27, 14, 5, 0, -1, 2, 9, 20. Hint: The series is created by the formula $2x^2 - 3x$ with $x=-5$ to 4.	Marks 8
			CLO 1
	(b)	Code the following scenario, input 10 numbers from the user and take the sum of squares of each number stored in the array. Display the answer at end.	Marks 8
			CLO 1
Q3	(a)	Code a function that reads a non-negative number (for example 8) and prints it in the following manner. 8 = 8, 7, 6, 5, 4, 3, 2, 1	Marks 10
			CLO 2
Q4	(a)	Identify errors in the following codes if any <pre>#include <math.h> using namespace std Void main() { int n; while (n >= 0) { cout >> n * n >> "\n"; --n; } cout >> n >> "\n"; while (n < 4) cout >> n++ >> "\n" cout >> n >> "\n" while (n >= 0) cout >> (n) >> "\n";</pre>	Marks 6
			CLO 2
	(b)	Determine the output of the following code? <pre>#include <iostream.h> using namespace std; int main(){ int n = 3; while (n >= 0){ cout << n * n << endl; n--; } cout << n << endl; while (n < 4) cout << n++ << endl; cout << n << endl; return 0; }}</pre>	Marks 6
			CLO 2