



Daffodil International University
Department of Software Engineering
Faculty of Science and Information Technology
Quiz 1, Spring 2026; Course Code: SE 121;
Course Title: Structured Programming; Section: 46 M

Time: 30 Minutes

Marks: 15

Answer ALL Questions

[The figures in the right margin indicate the full marks. All portions of each question must be answered sequentially.]

1.	a)	Rewrite the program in a correct and compilable form. <pre>#include <stdio.h> int main(){ int a = 5, b =7; float x = C; char c = C; if (a > b) printf("a is less than b\n"); printf("Character = %c\n", x); return 1}</pre>	[Marks - 5]						
	b)	A C program contains the following declarations and initial assignments: <pre>int a = 3; char b = 'Z'; // ASCII value of Z is = 90 float c = 3.5;</pre> Determine the value of each of the following expressions. Use the values initially assigned to the variables for each expression. (i) $(a +(c*2.0))\% a$ (ii) $(a > b) \& 1$	[Marks - 5]						
2.	a)	Write a C program that takes three integers representing the sides of a triangle and uses if-else with logical operators to determine whether the triangle is valid or not. A triangle is valid if the sum of any two sides is greater than the third side. Display Valid Triangle or Invalid Triangle accordingly. <table><tr><th>Sample Input</th><th>Sample Output</th></tr><tr><td>6 7 10</td><td>Valid Triangle</td></tr><tr><td>2 3 5</td><td>Invalid Triangle</td></tr></table>	Sample Input	Sample Output	6 7 10	Valid Triangle	2 3 5	Invalid Triangle	[Marks - 5]
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