ourdiu.com | Shared by Sakhawat Shahriar Porag

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 O

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. **[Marks - 5]**

```
#include <stdio.h
int main{}(
   int a = 5, b = 0;
   float x = 3.5;
   char ch = 'A';
   if (a > 0 and b == 0) printf("Both conditions are true\n");
   printf("Value of a = %f\n", a);
   printf("Value of x = %d\n", x);
   printf("Character = %d\n", ch);
   if (a > 0 || b) printf("Logical OR condition satisfied\n");
   return 0;)
```

b) A C program contains the following declarations and initial assignments: **[Marks - 5]**

```
int a = 10, b = 4;
int c = 3;
```

Determine the value of each of the following expressions. Use the values initially assigned to the variables for each expression.

(i) (a *b +c) % c

(ii) (a == b) || (a > b)

2. ***a)*** A mobile operator provides **free bonus minutes** based on a user's call usage.Given: **[Marks - 5]**

- Total call duration in minutes
- Bonus threshold (minutes) Write a C program that:

1. Calculates how many **full bonus blocks** are completed
2. Uses an **if–else statement** to check whether the user is eligible for a bonus

- If the remaining minutes are **0**, display Bonus applied successfully
- Otherwise, display Bonus not applicable

Sample Input	Sample Output
Total call minutes: 120 Bonus threshold: 30	Bonus blocks completed: 4 Bonus applied successfully
Total call minutes: 95 Bonus threshold: 30	Bonus blocks completed: 3 Bonus not applicable