**BABCOCK UNIVERSITY**

**SOFTWARE ENGINEERING DEPARTMENT**

**[QUESTION PAPER] TITLE: INTRO. TO PROGRAMMING USING C (COSC111)**

ASSIGNMENT 3 (Due Date:13-04-2022)

**SECTION A (Attempt all)**

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| 1. If int sum = 21 and int val = 3. What is the final value of sum from the expression:  sum+=val  (a) 19 (b) 7 (c) 24 (d) 63 | 2. A function returning no value is declared as:  (a) void (b) static (c) return (d) default |
| 3. Keyword used in defining a symbolic  constant in C programing is:  (a) #include (b).#define (c) int (d) <iostream> | 4. What happens to a line of code written after return statement…………………………….  (a) unreachable (b) commented (c) deleted (d) returned |
| 5. What is wrong with the following function call:  int costOfall(int x, string y, double z); //declaration  costOfall(20, 34.8, “Gowon Estate”); *// function call*  (a) parameter type (b) function type  (c) function name (d) return type | 6. What is the final value of **sum** in the following code chunk  { int n, sum = 0;  for (n = 1; n <= 3 ; n++,n++)  sum = sum + n;  }  (a) 4 (b) 9 (c) 120 (d) 3 |
| 7. What is the boolean operator for logical-and?  (a) && (b) & (c) AND (d) || | 8. In C, a **do**{…}**while**(condition) statement ends with a semi-colon: True/False? |
| 9. A ***function*** declared inside the ***main()*** function is:  (a) global (b) local (c) private (d) public | 10. Which of the following statements are true?  int f(float)  a) f is a function taking an argument of type int and returning a floating-point number  b) f is a function taking an argument of type float and returning an integer  c) f is a function of type float  d) f is a function of type int |

**SECTION B (Attempt all)**

1. Consider the following code extract and correct the errors

**int sum(int x; int y);**

**{**

**int result;**

**return = x+y;**

**}**

1. Identify what is erroneous about the following function header:

*void double findAverage()*

1. Why do you need to comment your code?
2. If **5!** (factorial) is calculated as **120**, write a C program using iterative procedure to implement this. Your program should have a main() function passing the value to be computed to the factorial function.
3. Write a program to find Area of Square and Circumference of a Circle. You are required to solve this problem using what you have learnt from creating user-defined functions. Your main function in the program should have a menu option to call which function the user desires to run per time. (Hint: Use switch …case statement)