**Quiz No 1 Rubric | Programming Fundamentals | Fall 2023 | Quiz version BCS-A1**

**Question 1**: What are header files? Can you name one? (2 marks)

| **Criteria** | **Excellent (2)** | **Satisfactory (1)** | **Unsatisfactory (0)** |
| --- | --- | --- | --- |
| Understanding of header files | The proper definition of header files and an example provided | Partial definition provided with no example | Incorrect or no definition provided |

**Question 2**: Stepwise, solve the following equation and write the r value. No need to write code (4 marks)

| **Criteria** | **Excellent (4)** | **Satisfactory (2-3)** | **Unsatisfactory (0-1)** |
| --- | --- | --- | --- |
| Solution of equation | All steps were correctly followed, and the correct value of r provided | Partially correct steps and/or partially correct value of r | Incorrect steps and/or incorrect value of r |

**Question 3**: Write a program to convert centimeters into meters and kilometers? Assume the value for centimeters to be 1000? What will be the output values in this case? Also, draw a flowchart for the said program.

(10 marks)

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | **Excellent (7-8)** | **Satisfactory (4-6)** | **Unsatisfactory (0-3)** |
| Program correctness | Correct program with correct output | Partially correct program with correct output | Incorrect program and/or output |
| Curly braces | All opening braces have matching closing braces and used correctly | Some braces are missing or misplaced | No braces or misplaced braces |
| Statement terminators | All statements have proper terminators | Some statements are missing terminators | No statement terminators |
| Flowchart | Provided and accurate | Provided but not completely accurate | Not provided or incorrect |

**Question 4:** What will be the output of the program? (10 marks)

| **Criteria** | **Excellent (9-10)** | **Satisfactory (5-8)** | **Unsatisfactory (0-4)** |
| --- | --- | --- | --- |
| Understanding of program | Correct output and explanation of the program | Partially correct output and/or explanation | Incorrect output and/or explanation |