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KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR
FIRST YEAR, SECOND SEMESTER EXAMINATION
FOR THE DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
DIT 1009 – VISUAL PROGRAMMING

Date: 13TH DECEMBER 2022
Time: 2:30PM – 4:30PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Explain reasons that make C# programming language widely used professional language (5 Marks)
- b) Discuss the main components of the .NET Framework environment (4 Marks)
- c) Define the term variable and use simple example to create or declare a variable (6 Marks)
- d) State and explain the data types used in C# programming language and give example of each (6 Marks)
- e) Distinguish the different types of casting (4 Marks)
- f) Illustrate using examples, the different ways of writing comments in C# programming language (5 Marks)

QUESTION TWO: (20 MARKS)

- a) Write a C# program that allows the user to enter age and displays the age (10 Marks)
- b) Describe the common concepts to all databases. (10 Marks)

QUESTION THREE: (20 MARKS)

- a) Explain the following program structure step by step (10 Marks)
using System;
namespace HelloWorld {
 class Program {
 static void main (string [] args) {
 Console.WriteLine("Hello World!");
 }
 }
}
- b) Explain two ways that a no-local method program can gain access to the data that is to be processed (5 Marks)
- c) Differentiate the distinct categories of subprograms (5 Marks)

QUESTION FOUR: (20 MARKS)

- a) Identify and briefly discuss the keywords used in C# exception handling (8 Marks)
- b) System.systemExcetion class is the base for all predefined system exception. Explain predefined exception classes derived from this class (8 Marks)
- c) Write C# syntax used to throw the present object statement in the catch block (4 Marks)

QUESTION FIVE: (20 MARKS)

- a) Write C# program to print pass if grade is less than or equal to 50 and prints fail if its less than 50 using the if/else structure (10Marks)

b) Demonstrate the program in (a) using a section of a flowchart diagram

(10 Marks)