©2023 TVET CDACC

061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/04/6/A

UNDERSTAND FUNDAMENTALS OF PROGRAMMING

JULY /AUGUST 2023

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

WRITTEN ASSESSMENT

Time : 3 Hours

INSTRUCTIONS TO CANDIDATE

1. *The paper consists of **two** sections: **A** and **B**.*
2. *Answer **ALL** questions in Section **A** and any **Three** from section **B***
3. *Marks for each question are indicated in the brackets*
4. *A separate answer booklet will be provided*
5. *Do not write on the question paper*

Candidates should answer the questions in English

This paper consists of 4 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (40 MARKS)

Answer all the questions in this section

1. Identify any TWO object-oriented programming languages other than Java. (1 Mark)
2. Distinguish between local and global variables. (4 Marks)
3. Define the following terms:
    a. Class (2 Marks)
    b. Object (2 Marks)
4. Explain THREE types of errors encountered during programming giving examples in each case. (6 Marks)
5. Explain TWO types of code in Java programming language. (4 Marks)
6. Write a program in Java programming language that prompts a user to enter *five* elements and calculate their sum using an array. (4 Marks)
7. Enumerate any TWO rules for creating identifiers in Java. (4 Marks)
8. Highlight FOUR primitive data types in java. (4 Marks)
9. Explain the difference between System.out.print*()* and ***System.out.println()*** as used in java programming language. (4 Marks)
10. Enumerate any THREE access modifiers used in a class declaration in Java. (3 Marks)
11. State any TWO keywords that are used for exception handling in Java (2 Marks)