



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

Qualification Code : 061006T4ICT
Qualification : ICT TECHNICIAN LEVEL 6
Unit Code : IT/OS/ICT/CR/02/6/A
Unit of Competency : Install Computer Software

WRITTEN ASSESSMENT ASSESSOR'S GUIDE

(These only serves as a guide to expected responses.)

SECTION A: (40 MARKS)

1. Define the term operating system as used in computers? (2 Marks)

It is a type of system software that is used to control the execution of user applications and manage the hardware resources of a computer system and provide the interface between the user and the computer.

(Award 2 marks for each maximum 2 marks)

2. Differentiate between white box testing and black box testing (4 Marks)

- **White box testing involves testing the product's underlying structure, architecture, and code to verify the input-output flow and enhance design, usability, and security. It focuses on the internal mechanism**

- **Black box testing involves testing against a system where the code and paths are invisible. It is used for validation where the internal working mechanism are ignored and focus is on the what the output is.**

(Award 2 marks for each maximum 4 marks)

3. List **four** importance of software maintenance (4 Marks)

- **Bug Fixing**
- **Capability Enhancement**
- **Removal of Outdated Functions**
- **Performance Improvement**

(Award 1 mark for each maximum 4 marks)

4. Explain the meaning of software maintenance. (2 marks)

- **Software maintenance is the process of changing, modifying, and updating software to keep up with customer needs. Software maintenance is done after the product has launched for improving the software, correcting bugs, to boost performance.**

(Award 2 marks for each maximum 2 marks)

5. Highlight **Four** advantages of destructive testing. (4 marks)

- **Determines the quality of welds**
- **Entertains compliance with regulations**
- **Verifies properties of a material**
- **Helps you to reduce costs, failures, and accidents**

(Award 1 mark for each maximum 4 marks)

6. Define the term installation manual. (2 Marks)

Software installation refers to the large-scale distribution of software and application on an organizational level.

(Award 2 marks for each maximum 2 marks)

7. Identify **SIX** Key elements to consider before upgrading your operating system. (6 marks)

- **Your Current Platform.**
- **Usability.**