

061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/2/6

INSTALLATION OF COMPUTER SOFTWARE

JULY/AUGUST 2023



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

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper has two sections **A and B**. Attempt questions in each section as per instructions given in the section.
2. You are provided with a separate answer booklet.
3. Marks for each question are indicated in the brackets.
4. Do not write on the question paper

This paper consists of THREE (3) printed pages

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

SECTION A: (40 MARKS)

Attempt ALL questions in this section.

1. Differentiate between ; (4 Marks)
 - a) Application software and Operating system
 - b) RAM and ROM
2. Outline THREE functions of an operating system. (3 Marks)
3. Distinguish between BIOS and POST as used in computers. (4 Marks)
4. State FOUR effects of viruses on computers. (4 Marks)
5. Highlight THREE main differences between mainframe and minicomputers. (3 Marks)
6. Identify THREE safety procedures involved in computer operating system installation. (3 Marks)
7. Define the following terms as used in computing;
 - a) Encapsulation (2 Marks)
 - b) Operating system (2 Marks)
 - c) Booting (2 Marks)
 - d) Graphical user interface (2 Mark)
8. Explain TWO types of computer software (4 Marks)
9. Discuss THREE benefits of computers in modern technology. (6 Marks)
10. State the memory capacity of short and float data types in bytes. (1 Marks)

SECTION B: (60 MARKS)

Attempt any Three (3) questions in this section.

- 11.** Building a computer is an enjoyable process if done correctly. The procedure for installing different hardware components varies from one to the other,
- a) Describe the steps followed to install and configure each of the following;
 - i) Processor (4 Marks)
 - ii) RAM (4 Marks)
 - iii) CD-ROM Drive (2 Marks)
 - b) Musa wants to buy a laptop computer for his personal use. Describe FIVE hardware specifications he would consider. (10 Marks)
- 12.** The ICT department in your institution recently received new computers. They have consulted you to shed light on the different ways they can install software's on the target computers.
- a) With relevant examples, explain FIVE types of software installation methods. (10 Marks)
 - b) Pre - installation system preparation is an important aspect of software installation process. Identify FIVE tasks that should be undertaken as part of this process (10 Marks)
- 13.**
- a) Distinguish between the following terms as used in computer operating systems.
 - i) Paging and segmentation. (2 Marks)
 - ii) Single user and multiple operating systems. (2 Marks)
 - iii) Logical and physical memory. (2 Marks)
 - b) Outline any FOUR user administration activities as used in computer operating systems (4 Marks)
 - c) Discuss FIVE process scheduling algorithms as used in computer operating systems (10 Marks)
- 14.** Computers have change the way people relate to one another and the living environment.
- a) Discuss FIVE social impact of computers in industry and education center. (10 Marks)
 - b) Explain FIVE generations of computer operating systems. (10 Marks)