

061005T4ICT

ICT TECHNICIAN LEVEL5

IT/OS/ICT/CR/3/5

Perform Computer Repair and Maintenance

March/April 2026



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

WRITTEN ASSESSMENT

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in section A and **ANY THREE** (3) questions in section B.
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet
5. Do not write on the question paper.

This paper consists of THREE (3) printed pages
Candidate should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (40 MARKS)

Answer all questions in this section

1. Define the following terms
 - i. Computer maintenance. (2 Marks)
 - ii. Computer repair. (2 Marks)
2. Figure 1 shows a computer component. Use it to answer the questions that follow.



Figure 1

- i) Identify the component. (2 Marks)
 - ii) State THREE functions of this component. (2 Marks)
3. When cleaning a computer system several detergents are used. Name TWO types of these computer cleaning detergents. (2 Marks)
4. Differentiate between passive maintenance and active maintenance. (4 Marks)
5. During a practical session students were provided with an antistatic wrist band. Give TWO uses of a wrist band in computer repair. (4 Marks)
6. A student was given a motherboard to identify the components. Name FOUR components found on this motherboard. (4 Marks)
7. Define the following terms as used in computers. (4 Marks)
 - i. Assembling
 - ii. Troubleshooting
8. Software update is important in computer maintenance. State TWO reasons for this update. (4 Marks)
9. Overheating can cause significant decrease of the computer performance. State TWO control measure that one can put to avoid overheating. (4 Marks)
10. Max noticed that the computer was not receiving power from the power supply. Give ONE common cause of the computer power supply failure. (2 Marks)
11. John is carrying out computer repair on a motherboard in preparation for the final Exams. Highlight FOUR signs of a faulty motherboard he could come across. (4 Marks)

SECTION B (60 MARKS)

Answer Any THREE questions in this section

12. a) Discuss FIVE major types of bus connectors found in typical IBM-class computer. (10 Marks)
- b) Distinguish between ROM and RAM. (4 Marks)
- c) A computer has been infected by a computer virus. Identify SIX signs this computer will show. (6 Marks)
13. a) Alice intends to acquire another RAM for her computer. Explain THREE factors she could consider before acquiring the RAM. (6 Marks)
- b) Dusting computer component is an important activity during maintenance. State FOUR tools that are used during this activity. (4 Marks)
- c) In preparation for an examination, the technician is required to perform maintenance on all the computers in the laboratory. Discuss FIVE benefits of performing this maintenance. (10 Marks)
14. a) A student has noticed that the computer processor is faulty. Explain FIVE possible causes for processor fault. (10 Marks)
- b) A technician wrote a report after carrying out repair and maintenance on several computers. Discuss FIVE components that will be included in the report. (10 Marks)
15. a) During troubleshooting of a computer, Mary established that the problem with the computer is its hard disk. Describe THREE possible causes of the problem. (6 Marks)
- b) Computer maintenance is a crucial task in the ICT. Give SIX reasons for carrying out computer maintenance. (6 Marks)
- c) A technician performed preventive maintenance on a computer. Explain FOUR benefits of maintenance. (8 Marks)