

061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/06/6

Perform Computer Repair and Maintenance

November /December 2025



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

WRITTEN ASSESSMENT

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INSTRUCTIONS TO CANDIDATE

1. The 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 this question paper.

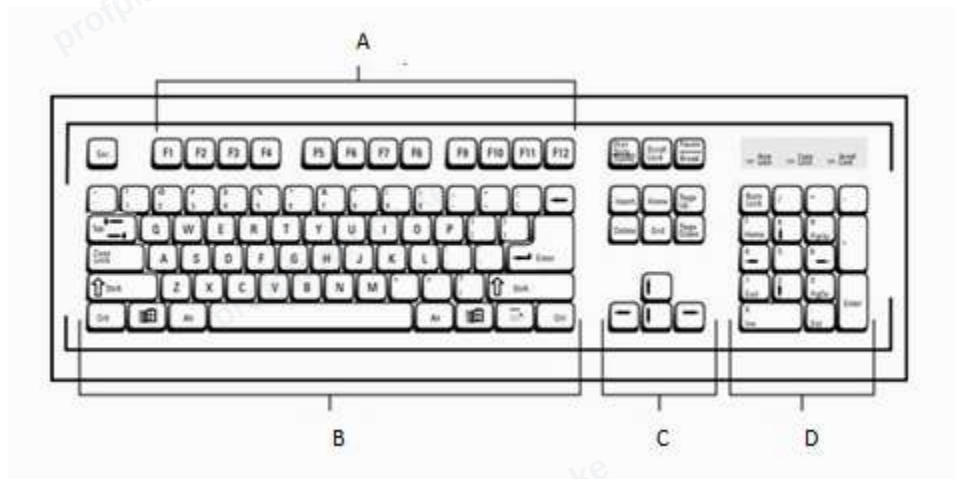
This paper consists of FOUR (4) printed pages

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. State FOUR steps used to install a computer processor. (4 marks)
2. A technician carried out preventive maintenance on their computers. Identify FOUR factors he considered before carrying out this type of maintenance. (4 marks)
3. The figure below show a computer keyboard. Use it to answer the question that follow.



- i. Identify the keys labeled A,B, (4 marks)
4. Students trouble-shotted a computer's processor to be faulty. Mention TWO signs of a faulty processor. (2 marks)
 5. A virus is a program that interferes with files in a computer. Outline THREE control measures against these computer viruses. (3 marks)
 6. A computer memory stores processes that are being executed. Distinguish between static RAM and dynamic RAM. (4 marks)
 7. As an ICT technician outline the steps used to update a computer system. (4 marks)
 8. The figure 1 below shows a computer hardware component. Use it to answer the questions that follow.



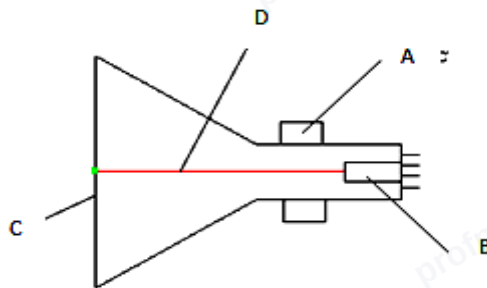
Figure 1

- i. Identify the component above. (1 mark)
 - ii. State FIVE features of the identified component. (5 marks)
9. System utilities are programs designed to help user fix and enhance current computer systems. Identify THREE such utilities. (3 marks)
 10. State FOUR steps of fixing a printer having paper jam. (4 marks)
 11. Mention TWO motherboard form factors that a student might come across during a computer repair and maintenance session. (2 marks)

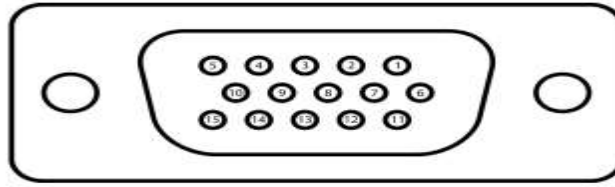
SECTION B (60 MARKS)

Answer any THREE questions in this section

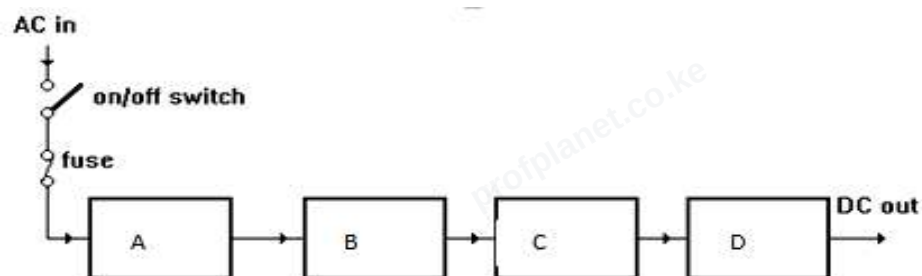
12. a) A student was tasked to assemble a computer during a computer repair practical. Discuss FOUR Safety Precautions he would observe while assembling the computer. (8 marks)
- b) The diagram below shows a cathode ray tube (CRT). Use it to answer the questions that follow.



- i. Identify the parts labeled A,B,C and D (4 marks)
 - ii. Explain the functions on the parts identified in (i) above. (8 marks)
13. a) Describe the procedure that an ICT technician would follow when upgrading computer software. (9 marks)
 - b) Describe the SEVEN steps a student would follow to assemble a computer during a repair and maintenance session. (7 marks)
 - c) The figure below shows a computer port. Use it to answer the questions that follow.



- ii. Identify the port above. (2 mark)
- iii. State three function of the port identified in (i) above. (3 marks)
14. a) During an interview, a candidate is instructed to replace a defective motherboard with a new one. Explain FIVE steps to follow when installing a motherboard in a computer system. (10 marks)
- b) A technician intended to replace a computer monitor and had to identify the suitable type to purchase. Discuss THREE categories of monitors available. (6 marks)
- c) Describe TWO ports found on a motherboard of a computer system. (4 marks)
15. a) Computer testing methods are a function correctly. Explain FIVE methods to identify whether hardware and software are working techniques. (8 marks)
- b) The figure below shows a computer power supply unit. Use it to answer the questions that follow.



- iv. Identify the parts labeled A, B, C and D. (4 marks)
- v. State one function of each of the parts identified in (i) above. (4 marks)
- c) Discuss TWO types of interrupts that halt a running program and transfer control to an interrupt service routine. (4 marks)