061006T4ICT
ICT TECHNICIAN LEVEL 6
IT/OS/ICT/CR/6/6
PERFORM COMPUTER REPAIR AND MAINTENANCE
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 4 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.

| l. | State the following acronyms in full | (4 Marks) |
|---|---|---------------------------|
| | a) BIOS | |
| | b) CMOS | |
| | c) EEPROM | |
| | d) UPS | |
| 2. | Differentiate between track ball and joystick | (2 Marks) |
| 3. Mr. Jackson intends to use USB port instead of a parallel port to connect peri | | ect peripheral devices on |
| | his computer. Outline FOUR merits of USB port. | (4 Marks) |
| 4. | Explain the functions of each of the following keys during the Power- on Self-Test process in a | |
| | computer system. | |
| | a) Esc | (2 Marks) |
| | b) F10 | (2 Marks) |
| | c) Ctrl+Alt+Delete | (2 Marks) |
| 5. | Highlight FIVE factors that should be considered when selecting a troubleshooting technique | |
| | | (5 Marks) |
| 6. | Enumerate FOUR benefits an institution gains by conducting regular computer maintenance. | |
| | | (4 Marks) |
| 7. | Tom, a technician acquired a software which was accompanied with technical documentation, | |
| | State THREE reasons why he should apply the document. | (3 Marks) |
| 8. | Define each of the following terms as used in computer hardware inve | entory. |
| | i) Model number | (2 Marks) |
| | ii) Serial number | (2 Marks) |
| 9. | Outline FOUR possible causes of a hard disk failure | (4 Marks) |
| 10. | . Distinguish between a motherboard and a daughterboard. | (4 Marks) |

SECTION B: (60 MARKS)

Attempt any THREE (3) questions in this section

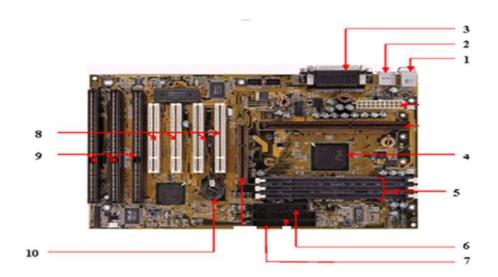
11.

- a) Explicate how you would troubleshoot a PC with the following symptoms; (10 Marks)
 - i) PC appears dead
 - ii) PC sometimes halts during booting
 - iii) Smell burnt parts or oduors
 - iv) PC powers down unexpectedly
- b) Software maintenance is the process of modifying and updating the software according to the customer's requirements. Explain FOUR types of software maintenance. (10 Marks)
- 12. An ICT technician from Kibawe technical Institute intends to train learners through PC repair and maintenance;
 - i) Identify FIVE safety precautions he should guide the learners to observe when repairing and servicing computer systems (10 Marks)
 - ii) Enumerate TEN important tools required for repair and maintenance. (10 Marks)

13.

a) Identify the following parts of a computer motherboard stating their functions.

(10 Marks)



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- b) NTFS is used in modern computers. Outline FOUR features that could be promoting its popularity. (4 Marks)
- c) Elaborate THREE circumstances under which a computer technician would update the hardware or software inventory records. (6 Marks)

14.

- a) Jayson an ICT technician from XYZ Company noted that the printer being used within the organization was having frequent paper jam. Explain THREE possible causes of this problem.
- b) Outline FOUR possible ways of controlling heat inside a systems unit of a computer. (4 Marks)
- c) Outline FOUR advantages of using attended software installation method. (4 Marks)
- d) Mrs. Florence intends to purchase a high quality personal computer, highlight SIX factors she should consider when placing the order. (6 Marks)