061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/01/6/A

Understand Computer Organization and Architecture

Nov/Dec 2024

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

PRACTICAL ASSESSMENT

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. In this practical assessment, you are required to perform the following tasks:

     i.   **TASK 1:** Verify Computer Components Specifications.

     ii. **TASK 2:** Inspect components inside the system unit

     iii. **TASK 3:** Assemble a computer

2. You have **Ten** minutes to read the instructions and check availability of resources for the practical.

3. The assessor will record your performance at critical points using audio-visual

4. You will be provided with the following resources:

     a. A functional computer

     b. Two Plain papers

     c. Soft brush

     d. Cleaning agent

NB: Ensure you have antistatic wrist wrap, and mat and Screw drivers for assembling the computer.

TASK 1: Verify Computer Components Specifications

You are provided with a fully functional computer.

a. Power on computer.

b. Provide specifications for the following components. Create a word document to record the specifications for each component. You are also required to take a screen shot for every specification and paste in the Microsoft word document.

c. Storage Devices- type, capacity

d. Memory (RAM)-type, capacity, speed

e. Processor (CPU)-brand, model, speed

f. Graphics Card (GPU)-brand, model

g. Operating System-name, version, licensing information

TASK 2: Inspect components inside the system unit

You are provided with a disassembled computer such that components such as RAM, hard disk/ SSD, power supply unit are all detached from the motherboard and the motherboard itself is removed from the system unit.

a. Identify the various components and state their functions.

    i. Power supply unit (PSU)

    ii. CMOS battery

    iii. CPU

    iv. SATA cable

    v. Hard disk drive/ Solid state drive

b. Provide specifications of the following

    i. Motherboard-brand, model, form factor

    ii. Power Supply Unit (PSU)- brand, model, wattage

c. Assemble the computer and turn it on.

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