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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

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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.

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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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