061005T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/4/6

PERFORM ICT SYSTEM SUPPORT

NOV/DEC 2023

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

PRACTICAL ASSESSMENT

TIME: 3 Hours

INSTRUCTIONS TO CANDIDATE

1. In this practical assessment you are required to perform three TASKS

   TASK 1: System assembling (15 Marks)

   TASK 2: Network monitoring (20 Marks)

   TASK 3: System Performance monitoring (15 Marks)

2. You are given **10 minutes** to read through the tasks and confirm the availability of the resources

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

4. All tasks carry **50** Marks

You will be provided with the following resources.

a) Monitor, keyboard, mouse

b) A faulty and working Hard Disk installed with windows OS

c) A faulty and working RAM Stick

d) Appropriate screw drivers

e) System Unit

f) System Connection cables (Power, VGA, Ethernet)

g) Internet

h) Printer

i) Printing paper

TASK 1:

a) Identify and categorize the components given (5 Marks)

b) Assemble the computer system correctly using the parts provided and start it up

(10 Marks)

TASK 2:

a) Identify the faulty components and label them appropriately (5 Marks)

b) Connect the computer to the internet and run the following commands on windows OS and note down the results giving comments

   i) Ipconfig for all information (2 Marks)

   ii) Tracert for www.google.com (2 Marks)

   iii) Netstat for getting ip addresses only (2 Marks)

c) Download known network monitoring tool from trusted source and install it properly.

(5 Marks)

d) Run a disk check option for your hard disk to monitor the health status of your hard drive and note down the results. (4 Marks)

TASK 3

Monitor the following system performance parameters and note them down

    a) Monitor system performance in terms of CPU and Memory.   (4 Marks)

    b) Identify open processes and background process.   (4 Marks)

    c) CPU DHCP service PiD number.   (4 Marks)

    d) Connect the printer using the Ethernet cable.   (2 Marks)

    e) Print summary report on the tasks above which you noted down.   (1 mark)