CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN COMPUTER SCIENCE

COSC 00106: INSTALLATION AND CUSTOMIZATION

STREAMS: CERTIFICATE COMPUTER SCIENCE Y1S2   **TIME: 2 HOURS**

DAY/DATE: MONDAY 03/12/2018   **11.30 A.M – 1.30 P.M**

INSTRUCTIONS:
- Answer question **ONE** and **TWO** other questions
- Do not write anything on the question paper
- This is a **closed book exam**, No reference materials are allowed in the examination room
- There will be **NO** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.
- Marks are awarded for clear and concise answers.

QUESTION ONE (30 Marks)

a. Define the following terms   (6 Marks)
   i)NTFS
   ii)FAT32
   iii)IDE
   iv)ATA
   v)SCSI
   vi)RAID

b. What do the following Diagnostic Tools perform on Windows OS   (4 Marks)
   i)CPU-Z
   ii)Angry IP Scanner
   iii)Wi-Fi Analyzer

iv)Reliability Monitor

c. Name 4 Legacy connectors   (4
Marks)

d. List 5 Types of Ports and their Applications   (5
Marks)

e. What is the use of drivers in a computer?,Give TWO examples of device drivers (2 Marks)

f. What do the following commands represent on Windows Operating systems:
(3 Marks)
i)Win key + R
ii)Win key + E
iii)CTRL + ALT + DELETE

g. Explain the role of a Disk Defragmenter program on a Windows Operating System (3 Marks)

h. What is GRUB in Linux OS,what is its purpose in Linux installation
(3 Marks)

SECTION B (Answer any TWO questions)

QUESTION TWO (20 Marks)
a. List the minimum system requirements for each of these examples of Operating Systems
(10

Marks)
i) Microsoft Windows Operating Systems
10
ii)Linux Operating Systems
Ubuntu
iii)Mac Operating Systems
MacOSX

b. Describe in detail the steps you would take to perform a clean install of Windows 10 on a laptop computer.
(10 Marks)

QUESTION TWO (20 Marks)

a.) Define the term mobile hotspot. Explain how you can implement it on Windows 10.
(6 Marks)
b.) Explain each of the following Windows desktop features   (10 Marks)

    i. Taskbar
    ii. Screensaver
    iii. Wallpaper
    iv. Icon
    v. Personalization

c.) What is the difference between MiFi and WiFi
(4 Marks)

QUESTION FOUR (20 Marks)

a. One month after installing **Windows 10** and providing Jane with some application programs, she calls you to complain about **Skype** that keeps loading every time she boots up her computer. Explain to her the steps she needs to take in order to stop the program from loading.
(5 Marks)

b. Discuss the roles of BIOS in performing a clean installation of an operating system.
(5 Marks)

c. John approaches you with his personal laptop computer and asks you to install the Microsoft Office Suite he has bought. On booting the computer you realize John bought a laptop without any operating system loaded. Explain to John what an operating system is, its purpose and why he can't install Microsoft Office without installing the operating system first. (10 Marks)

QUESTION FIVE (20 Marks)

a. Describe THREE reasons why if you have a SSD drive in your computer, you should NOT defragment your hard disk. (6 Marks)

b. Explain the function of **'grub'** in the installation of Linux and Windows operating systems. (3 Marks)

c. Explain the steps you would undertake in order to create a new disk partition on Windows 10.

(5 Marks)

d. When you install a new board in you PC (eg. sound card) you can get conflicts between the board and your existing hardware. Explain Six ways you can resolve these conflicts (6 Marks)