THARAKA **UNIVERSITY**

COLLEGE

UNIVERSITY EXAMINATIONS
EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF EDUCATION(SCIENCE)

COSC 114: INSTALLATION AND CUSTOMIZATION OF COMPUTER SERVICES

STREAMS: BED SCIENCE Y1S2   **TIME: 2 HOURS**

DAY/DATE: TUESDAY 14/4/2020   **8.30 AM – 10.30 AM**

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. Contrast the difference between formatting and partitioning with regard to the installation of operating systems.   (4 Marks)

b. Discuss THREE major differences between LINUX and Widows Operating Systems.
                                                                    (6 Marks)

c. Explain the difference between a 32-bit computer and a 64-bit computer (4 Marks)

d. Explain the function of **'grub'** in the installation of Linux and Windows operating systems.   (2 Marks)

e. Discuss the difference between Duplicate and Extend when using a projector (4 Marks)

f. List any THREE file systems associated with LINUX/UNIX operating systems.
                                                                    (3 Marks)

g. Explain the role of a Disk Defragmenter program on a Windows Operating System

(4 Marks)

h. List THREE factors you would consider before purchasing a laptop computer. (3 Marks)

SECTION B (Answer any TWO questions)

QUESTION TWO (20 Marks)

a.) Explain the steps you would undertake in order to create a new disk partition on Windows 10. (6 Marks)

b.) State and explain the THREE examples of standard computer ports (6 Marks)

c.) Explain each of the following Windows desktop features. (8 Marks)

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

QUESTION TWO (20 Marks)

a. Discuss the roles of BIOS in performing a clean installation of an operating system.

(8 Marks).

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

c. Define the term Device Driver. Explain how you can use the Device Manager on Windows 10 to update, roll back, disable or uninstall Device Drivers. (6 Marks)

QUESTION FOUR (20 Marks)

a.) Describe the difference between the NTFS file system and FAT 32 system and state with reasons where they can be implemented. (10 Marks)

b.) Alice has brought to you her computer that has Windows 7 installed. She asks you to upgrade her operating system to Windows 10 and install Ubuntu alongside windows. Briefly state some of the precautions you would need to take before performing the above task. (5 Marks)

c.) One month after installing **Windows 10** and providing Jane with some application programs, she calls you to complain about the **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)

QUESTION FIVE (20 Marks)

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

b. 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)