

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN COMPUTER SCIENCE

COSC 00106: INSTALLATION AND CUSTOMIZATION

STREAMS: CERT. COMP SCI Y1S2

TIME: 2 HOURS

DAY/DATE: TUESDAY 6/08/2019

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)

- Explain the term system requirements as relates to installation of operating systems. (2 Marks)
- List FOUR factors one should consider before installing an operating system. (4 Marks)
- Define the term Device Driver. Explain how you can use the Device Manager on Windows 7 to update, roll back, disable or uninstall Device Drivers. (5 Marks)
- Explain each of the following Windows desktop features
 - Taskbar (2 Marks)
 - Screensaver (2 Marks)

COSC 00106

a.iii. Wallpaper (2
Marks)

a.iv. Icon (2
Marks)

e. Explain TWO major differences between a 32-bit computer and a 64-bit computer.

(4 Marks)

f. Discuss the difference between Duplicate and Extend when using a projector. (2
Marks)

g. List any TWO file systems associated with LINUX/UNIX operating systems. (2
Marks)

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

(3 Marks)

SECTION B (ANSWER ANY TWO QUESTIONS)

QUESTION TWO (20 MARKS)

a. Explain the difference between partitioning and formatting. (4
Marks)

b. Indicating the color associations where applicable, list TWO examples of ports used to connect exterior devices to the system unit. (2 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 does, its purpose and why it is required before installing Microsoft Office Suite (10
Marks)

d. Discuss FOUR benefits that 2.5 inch hard disk drives over their 3.5 inch counterparts (4 Marks)

QUESTION THREE (20 MARKS)

COSC 00106

- 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. (5 Marks)
- c. State and explain THREE hardware diagnostic tools in Windows. (9 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. One month after installing **Windows 7** 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)
- c. Discuss the roles of BIOS in performing a clean installation of an operating system. (5 Marks)

QUESTION FIVE (20 MARKS)

- a. Explain the steps you would undertake in order to create a new disk partition on Windows 7. (5 Marks)
 - b. Explain the steps taken to implement a mobile hotspot on Windows 10. (5 Marks)
 - c. Discuss FIVE major differences between LINUX and Windows Operating Systems. (10 Marks)
-