

UGANDA MARTYRS UNIVERSITY

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION SYSTEMS

END OF SEMESTER TAKE HOME FINAL ASSESSMENT

SEMESTER II, 2020/21

THIRD YEAR EXAMINATION FOR BACHELOR OF SCIENCE IN
INFORMATION TECHNOLOGY

(Rubaga, Nkozi and Masaka)

Systems Administration and computer Maintenance

COURSE CODE: CSC 3103

DATE: WED 17TH FEB 2021

TIME: 9:30am – 3:30pm

Instructions:

1. Carefully read through **ALL** the questions before attempting
 2. This paper consists of **THREE** questions attempt only two,
 3. Number One is **COMPULSORY** , choose any one of questions two and three.
 4. Avoid similar work
 5. Avoid too many words
 6. Forward your work **ONLY** through moodle classroom.
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Question One

Centenary bank Ltd is one of the leading banking institutions in Uganda. It has many branches in different locations in Uganda and these branches are networked and controlled from the head office. Their network runs on linux servers and different services are installed of which they include active directory, DNS server, file server etc. Recently the manager found out that most of employees spend much of their time accessing Facebook and surfing other than doing the office work of the company. You have been consulted for help to discuss to them the process of configuring the following;

- i. Setting up backup in windows
7M
- ii. File sharing (Limiting access to specific files in Windows)
7M
- iii. Automatic backup in Linux
5M
- iv. Email servers on open source systems
5M
- v. Configuring a network monitoring tool such as wireshark on an O/S of your choice. 6M

Question Two

Greg a system administrator of Uganda Martyrs University would like to install an Operating system on the new computers that were donated by Microsoft Company in their campaign to improve technology in higher Institutions. Advise him on the following

- i. Elaborate to him the steps that must be taken before installation or upgrading of Operating System
10M
- ii. Brief him on the operating system installation types and techniques he may use. 4M
- iii. Discuss to him the basic troubleshooting procedures for general computer failure. 6M

Question Three

Feral Enterprises is a leading NGO that handles very critical data, as a systems administrator of this firm, you are tasked to back up data regularly,

- a) Explain the importance of data backup to the junior IT staff.
3M
- b) Describe five would be best practices for data backup.
5M
- c) What criteria would you use to choose a backup media.
3M
- d) What are some of the considerations you would make before backing up?
4M
- e) Elaborate the practical procedure for backing up and restoring of data in windows. 5M