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**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
YEAR TWO SEMESTER TWO EXAMINATIONS**

**FOR DIPLOMA
(INFORMATION TECHNOLOGY)**

COURSE CODE : DIT 078

COURSE TITLE : SYSTEMS ADMINISTRATION

DATE: ²⁶26/04/2023

TIME: 2.00 P.M. - 4.00P.M. 2HRS

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [24 MARKS]

- a. What is system administration [2 marks]
- b. Highlight **FIVE** Roles of System Administrator. [5 marks]
- c. Outline **FIVE** server types [10 marks]
- d. What are some of the skills required of a Sysadmin [4 marks]
- e. As a system admin, give **THREE** reasons why it is important to have a climate control data centre [3 marks]

QUESTION TWO [18 MARKS]

- a. What is a server? [2 marks]
- b. What are minimum requirements for installing a server? [4 marks]
- c. Outline **FIVE** features of windows server 2012 [10 marks]

QUESTION THREE [18 MARKS]

- a. Define the following terms [4 marks]
 - i. Proxy
 - ii. Patch
 - iii. System administrator
 - iv. Operating system
- b. State Personal Characteristics of a System Administrator? [4 Marks]
- c. What Does a Sysadmin Do? [4 Marks]
- d. There are hundreds of Linux distributions out there, choosing the right distro for your business can be a challenge, explain **THREE** key factors to consider when choosing a Linux distribution. [6 marks]

QUESTION FOUR [18 MARKS]

- a. What is PowerShell. [2 marks]
- b. Highlight **FOUR** functions of PowerShell. [4 marks]
- c. Explain backup or the process of backing up, and why is it important [4 marks]
- d. Discuss **FOUR** types of backup [8 marks]

QUESTION FIVE [18 MARKS]

- a. What is Server Platform? [2 marks]
- b. Outline **FIVE** reasons to use proxy servers [10 marks]
- c. One of Linux's many advantages over Windows is that it is more secure, Explain three factors that makes Linux superior in security. [6 marks]