



(Knowledge for Development)

**KIBABII UNIVERSITY
(KIBU)**

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

END OF SEMESTER EXAMINATION

2021/2022 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATION

FOR THE DIPLOMA IN

(INFORMATION TECHNOLOGY)

COURSE CODE: DIT 078

COURSE TITLE: SYSTEMS ADMINISTRATION

DATE: 13/05/2022 TIME: 2.00 P.M. – 4.00 P.M.

2HRS

INSTRUCTIONS TO CANDIDATES:

ANSWER QUESTION ONE AND ANY OTHER TWO.

Paper Consists of 2 Printed Pages Please Turn Over ➔

QUESTION ONE (COMPULSORY) [24 MARKS]

- a. What is the difference of Network administration and System Administration? [6 Marks]
- b. State five Roles of System Administrator. [4 Marks]
- c. What are minimum requirements for installing a server? [4 Marks]
- d. Using an example, explain what a Domain is? [4 Marks]
- e. List and explain three types of servers. [6 Marks]

QUESTION TWO [18 MARKS]

- a. Differentiate between a server and a client giving example? [6 Marks]
- b. What are the primary Subsystem that make up a server? [4 Marks]
- c. Explain the function of Server in system administration [4 Marks]
- d. State four Different Roles in Windows Server? [4 Marks]

QUESTION THREE [18 MARKS]

- a. A virtual Machine is a software that creates a virtualized environment between the computer platform and the end user for the user to operate the software. What are the benefit of virtual machine? [6 Marks]
- b. The client is the end user of the network and needs to be secured the most, discuss how you can secure a system on the client side [4 Marks]
- c. What is the importance of having a data centre in an organization? [4 Marks]
- d. Explain the importance of having RAID backup [4 Marks]

QUESTION FOUR [18 MARKS]

- a. State and explain the different types of Server Platform? [6 Marks]
- b. What is so special about the system administrator account? [4 Marks]
- c. What is a Network Operating System? [4 Marks]
- d. Differentiate between Windows, Linux and Macintosh NOS [4 Marks]

QUESTION FIVE [18 MARKS]

- a. Differentiate between Domain Controller and Active Directory? [4 Marks]
- b. Because computer systems are human-computer communities, there are ethical considerations and some decisions have to be made to protect the rights of individuals explain these ethical issues in system administration [6 Marks]
- c. In today's information-rich environment, computer systems exist at the heart of nearly every organization and are critical to the organization's success. Explain the importance of administering these systems. [4 Marks]
- d. Explain the four basic elements in security [4 Marks]