

15



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**(KIBU)**

**UNIVERSITY EXAMINATIONS**  
**2021/2022 ACADEMIC YEAR**

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

**FOR DIPLOMA**  
**(INFORMATION TECHNOLOGY)**

**COURSE CODE** : **DIT 078**  
**COURSE TITLE** : **SYSTEMS ADMINISTRATION**

**DATE: 06/09/2022**

**TIME: 2.00 P.M.-4.00 P.M.**

---

**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO.**

**QUESTION ONE (COMPULSORY) [24 MARKS]**

- (a) Explain the functions of the following components of a system [6 Marks]
- i. The Client
  - ii. The Network
  - iii. The Server
- (b) Who is a system admin? [4 Marks]
- (c) Briefly explain various duties of a system administrator [8 Marks]
- (d) What kinds of issues does system administration cover? [6 Marks]

**QUESTION TWO [18 MARKS]**

- (a) What is so special about the system administrator account? [8 Marks]
- (b) Because computer systems are human-computer communities, there are ethical considerations involved in their administration. Discuss [10 Marks]

**QUESTION THREE [18 MARKS]**

- (a) What is a Network Operating System? [2 Marks]
- (b) Identify THREE Network Operating System Software listing their unique features [6 Marks]
- (c) User management is about interfacing humans to computers. This brings to light a number of issues, discuss [10 Marks]

**QUESTION FOUR [18 MARKS]**

- (a) Define the following terms [4 Marks]
- i. Domain
  - ii. DNS
- (b) Briefly explain the function of DNS [6 Marks]
- (c) Elaborate the hierarchy of Name Server [8 Marks]

**QUESTION FIVE [18 MARKS]**

- (a) Protecting a system against threats requires both pro-active (preventative) measures and damage control after breaches. As a system admin, briefly explain how these can be achieved. [8 Marks]
- (b) System Security embraces issues such as Confidentiality, Availability and Integrity. Justify this statement. [10 Marks]