



KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS
YEAR ONE SEMESTER TWO EXAMINATIONS

FOR THE DEGREE OF BACHELORS OF SCIENCE (INFORMATION TECHNOLOGY)

COURSE CODE: BIT 322

COURSE TITLE: SYSTEM ADMINISTRATION AND

MAINTENANCE

DATE: 01/09/2022

TIME: 09:00 A.M - 11:00 A.M.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

a)	Define the following terms	(10 Marks)
	i. Server	
	ii. Client	
	iii. Patch	
	iv. Hotfix	
	v. Service pack	
b)	You have recently joined ICT staff team of a leading regional bank	k. Your task is
	considering deploying new server machines as part of the institution's I	T infrastructure
	upgrading:	(12 Marks)
	i. List any five hardware specifications that are typical of server made	chines
	ii. Discuss five roles characteristic of servers in such an organization	
c)	List any five tasks of a system admin	(5 marks)
d)	State any three performance counters on windows server	(3 marks)
	QUESTION TWO [20 MARKS]	
a)	State and explain any four types of web servers	(8 Marks)
b)	What is virtualization	(2 Marks)
c)	State and explain any four benefits of virtualization	(8 Marks)
d)	Name any two Virtualization software	(2 Marks)
	QUESTION THREE [20 MARKS]	
a)	Define the following terms	(9 Marks)
	i. Active directory	
	ii. User group	
	iii. Active directory domain	
b)	State the procedure for adding a server roles on any windows server	(9 Marks)
c)	What will the following command do in linux: apt-get install teamviewer	(2 Marks)

QUESTION FOUR [20 MARKS]

a) Defense-in-depth provides multiple layers of defense to protect a networking environment, using a diagram highlight the layers involved (10 Marks)

b) State any five reasons as to why most system administrators will prefer running their services on linux as compared to windows server (5 Marks)

c) Define security policy and list any three items to be configured under local security policy in windows server (5 Marks)

QUESTION FIVE [20 MARKS]

a)	State and explain five roles on Microsoft server 2012	(10 marks)
b)	What are the features of Microsoft server 2012	(4 Marks)
c)	State a procedure for scheduling a task in server 2012	(5 Marks)