



KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR TWO SEMESTER TWO EXAMINATIONS

FOR THE DEGREE IN (INFORMATION TECHNOLOGY)

COURSE CODE : BIT223

COURSE TITLE : NETWORK ADMINISTARTION AND

MANAGEMENT

DATE: 13/10/2021 TIME: 9.00 A.M-11.00 A.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

a) Explain what the following terms in network management mean

1	1			
	i.	Managed device.	(1 mark)	
	ii.	Managing Entity.	(1 mark)	
	iii.	Network management protocol	(1 mark)	
	iv.	Management information base (MIB)	(1 mark)	
b)	State a	ny three network management tools	(3 marks)	
c)	Define network administration		(3 marks)	
d)	Differentiate between a private and public network			
e)	State the functions of DHCP (3		(3 marks)	
f)	Why de	Why do we need host name translation to the IP address? (5 marks)		
g)	Why w	ould you need network documentation yet the network is so small the	work documentation yet the network is so small that is understandable	
	by the	administrator?	(3 marks)	
h)	Define network policy		(3 marks)	
i)	State tv	vo type of maintenance	(2 marks)	
		QUESTION TWO [20 MARKS]		
a)	Describ	be the information that are contained in network documentation	(10 marks)	
b)	list the	activities cycled in the scope of network maintenance	(5 marks)	
c)	Maintenance tasks within the network administration can be grouped into five major categories,			
	state th	e categories	(5 marks)	
		QUESTION THREE [20 MARKS]		
a) Before	e we can identify vulnerabilities, we must first decide what we need	to protect. Thus, the	
	first st	ep of a risk analysis is to identify the assets of the computing system w	hich are available in	
	our ne	twork settings. Identify these assets.	(4 marks)	
b) State a	and explain any four network administration categories as per ISO	(8 marks)	

c) Highlight any four messages exchanged between a DHCP server and client during allocation of

(8 Marks)

IP addresses

QUESTION FOUR [20 MARKS]

- a) You have been employed as a network administrator of Kibabii University. Describe how you will go around to troubleshoot network connection.
 (7 marks)
- b) In network management, explain the main jobs of a network manager/administrator. (6 marks)
- c) Differentiate between two types DNS Query (4 marks)
- d) Identify some information that can be retrieved while acquiring information for network monitoring?
 (3 marks)

QUESTION FIVE [20 MARKS]

- a) Describe network management by grouping basic operation? (6 marks)
- b) Discuss the metrics that are used to measure network performance (9 marks)
- c) What are the ethic codes of conduct of network administrator? (5 marks)