

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATIONS FOR DEGREE IN:

BACHELOR OF TECHNOLOGY IN INFORMATION COMMUNICATION TECHNOLOGY (BTIT 14S & 13S)

EIT 4209: NETWORK SYSTEM ADMINISTRATION

END OF SEMESTER EXAMINATION SERIES: APRIL 2015
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consists of **FIVE** questions.

Attempt question **ONE** (**Compulsory**) and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

a) By citing an example in each case, differentiate between the following terms:

(i) Physical and logical network topologies(ii) Network address and broadcast address(4 marks)(4 marks)

(iii) Loop back address and auto-configuration range

(iv) Static IP address and Dynamic IP Address (4 marks)

b) The organization has purchased the class B address 170.50.0.0 would like to use it to create five networks. As an expert of network assist this organization to subnet its network (10 marks)

(4

c)	State any FOUR reasons why network administrator use network analyzer	(4 marks)	
Qu	nestion Two		
a)	Explain TWO methods that can be used to sniff on a switch	(10 marks)	
b)	What are the challenges of system administration	(6 marks)	
c)	Differentiate between peer-to-peer and client-server networking	(4 marks)	
Qu	Question Three		
a)	Explain the differences between the following terms.	(4 marks)	
	(i) Workgroup and domain(ii) Administrator account and Guest account		
b)	Explain THREE methods of detecting sniffers	(6 marks)	
c)	Differentiate between disk partitioning and disk formatting	(4 marks)	
d)	State and explain THREE method of communications	(6 marks)	
Qu	estion Four		
a)	The system administrator can choose various password options to protect access Describe two such options	to a domain. (4 marks)	
b)	Explain THREE importance of the client server model	(6 marks)	
c)	Explain FIVE benefits of window server 2008 Active directory	(10 marks)	
Qu	estion Five		
a)	As a system Administrator, it is important to understand the concept of a group s assign members to their correct respective groups. By citing one characteristic describe the following types of groups scopes (i) Domain local (ii) Universal group (iii) Global group	-	
b)	Explain TWO methods that can be used to protect against intruders	(4 marks)	
c)	Explain the components of het network analyzers	(10 marks)	