



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY
(BTIT 13M/BSIT 12J)

EIT 4209: NETWORK SYSTEM ADMINISTRATION

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: MARCH 2014
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) Explain the differences between the following terms:- **(20 marks)**
- (i) Client and server
 - (ii) Workgroup and domain
 - (iii) File transfer protocol (FTP) and Hypertext Transfer Protocol (HTTP)
 - (iv) Firewall and intrusion detection system
 - (v) Administrator account and guest account
- b) State any **FOUR** reasons why network administrators use network analyzers. **(4 marks)**
-

- c) Explain the following terms:
 (i) Active directory
 (ii) System Administration
 (iii) Network Administration (6 marks)

Question Two

- a) Explain TWO methods that can be used to swift on a switch. (10 marks)
- b) What are the challenges of system administration? (6 marks)
- c) Differentiate between peer-to-peer network operating system and client server network operating system. (4 marks)

Question Three

- a) Using a diagram, briefly explain the layers of TCP/IP protocol suite. (10 marks)
- b) Explain THREE methods of detecting sniffers (6 marks)
- c) Differentiate between disk portioning and disk formatting (4 marks)

Question Four

- a) The system administrator can chose various password options to protect access to a domain. Describe TWO such options. (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)

Question Five

- a) As a system administrator, it is important to understand the concept of a group scope so as to assign members to their correct respective groups. By citing one characteristic in each case, describe the following types of group scopes. (6 marks)
 (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 the network analyzers. (10 marks)