

TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

DIPLOMA INFORMATION COMMUNICATION TECHNOLOGY

ECS 2207: NETWORK DESIGN AND IMPLEMENTATION

SPECIAL/ SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Sep2018

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of FIVE questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question 1

a.	List and explain the FOUR fundamental network design goals	(8 marks)
b.	Differentiate between Peer to Peer and Client-Server computing	(4 marks)
c.	Describe the any FOUR roles of a network administrator	(4 marks)
d.	Provide reasons why an organization may require to implement a computer network	(4 marks)

Question 2

a.	Define the roles of	any FIVE types of	f computer servers	10 marks)
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b. Explain the functions and types of network operating system (10 marks)

Question 3

a. List any FOUR properties of a user account (4 marks)

- b. Given a user account explain the different permissions that can be configured (6 marks)
- c. An employee who quits from an organization can have his user account left intact, deleted or suspended.
 - i. Give a possible reason for each of the THREE actions.
 - ii. State an advantage and disadvantage in each case.

(10 marks)

Question 4

a. Differentiate between user rights and group rights

(6 marks)

- b. Explain the following terminologies
 - i. Workgroups
 - ii. Domains
 - iii. User profile
 - iv. Password policy

(8 marks)

- c. Define the following terms
 - i. Bus and Tree topologies
 - ii. TCP/IP
 - iii. Intranet

(6 marks)

Question 5

a. List and describe any FIVE system monitoring system services.

(10 marks)

b. Explain how RAID provides a fault tolerant system

(4 marks)

c. Explain the how one may troubleshoot Problems with a Network Printer

(6 marks)