



TECHNICAL UNIVERISTRY OF MOMBASA

# Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATIONS FOR DEGREE IN:  
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (BTIT Y4 S1)

**EIT 4409: NETWORK OPERATING SYSTEMS**

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

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**Question One (Compulsory)**

- a) Define the term network operating system **(2 marks)**
- b) Network operating systems are said to be multi-user and multi-tasking. Distinguish between the two terms **(4 marks)**
- c) How does Network operating system differ from stand alone operating system? Explain **THREE** differences **(6 marks)**
- d) Explain **THREE** factors you will consider before choosing. Network operating system **(6 marks)**
- e) With an example for each, explain the **TWO** types of Network Operating Systems **(4 marks)**

- f) Explain FOUR characteristics of a Network Operating system (8 marks)

### Question Two

- a) Give a brief discussion on the following:  
(i) Peer to peer network  
(ii) Client-server network (8 marks)
- b) State THREE advantages and TWO disadvantages of client-server network (5 marks)
- c) What is a file system (2 marks)
- d) Explain any TWO types of file systems with an example (5 marks)

### Question Three

- a) Explain the TWO file access methods in Network Operating System (4 marks)
- b) Distinguish between a file system and a file manager (4 marks)
- c) Differentiate between a file system and operating system (4 marks)
- d) What is a directory, distinguish it from a file (2 marks)
- e) Explain why a client server network would be preferred over a peer to peer network (6 marks)

### Question Four

- a) What are TWO ways of assigning IP addresses. Explain (5 marks)
- b) Describe the structure of an IP addresses (5 marks)
- c) Outline the steps involved in installing windows 2008 server (10 marks)

### Question Five

- a) Explain why file systems are important in operating systems (5 marks)
- b) A file system is a method of storing and organizing files on a storage devices. Explain the TWO ways we can view these files logically (5 marks)
- c) State FIVE contents of a directory (5 marks)
- d) Most operating systems provide a file system, as a file system is an integral part of any modern operating system. Comment (5 marks)