

TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering &

Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (BTIT M11)

EIT 4409: NETWORK OPERATING SYSTEM

END OF SEMESTER EXAMINATION SERIES: APRIL 2013 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** 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)	Identify and explain the essential network operating systems components.	(10 marks)
b)	Define preemptive and non preemptive multitasking.	(6 marks)
c)	Describe the structure of an IP-address.	(4 marks)
d)	 You have been given an IP-address IT2.16.1.1 determine: (i) Network address (ii) The range of addresser you can assign to individual losts (iii) Broadcast address 	

(v) Subnet mask

Question Two

plain the main features which are considered when choosing a network operating system.			
b) Describe the role of software in supporting a computer network.	(10 marks) (10 marks)		
Question Three			
In relation to Network Operating System. The Open Systems Interconnection (OSI) 7 layer model is a critical model for modern computer networking:			
a) In the correct sequence from either end, identify the seven layers of the OSI/OSI 7 Layer model.			

a) In the correct sequence from either end, identify the seven layers of the OSI/OSI 7 Layer model (4 marks)			
b) Briefly explain the functions of each layer	(4 marks) (14 marks)		
c) What are the advantages of the OSI model?	(2 marks)		
Question Four			
a) Describe the process of gathering user requirements for a small network.	(10 marks)		
b) Briefly describe the FIVE network classes.	(10 marks)		
Question Five			
a) Network operating system are said to be multi-user. Discuss.	(10 marks)		
b) How does a network operating system differ from a standalone operating system?	(10 marks)		