THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)
(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN TECHNOLOGY IN INFORMATION COMMUNICATION
TECHNOLOGY
(CICTM M12)

ECT 1110: COMPUTER NETWORKS

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: OCTOBER 2012
TIME: 2 HOURS

<u>**Instructions to Candidates:**</u>
You should have the following for this examination
- *Answer Booklet*

This paper consist of **FIVE** questions

Answer 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
SECTION A (COMPULSORY)

Question One (20 marks)

Describe **FIVE** types of physical network topologies used in LAN.   **(20 marks)**

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

a) Outline the functions of network operating system.   **(8 marks)**

b) Describe the VSAT technology.   **(6 marks)**

c) State the disadvantages of parallel over serial transmission.   **(6 marks)**

Question Three (20 marks)

a) Explain the importance of a gateway on a network.   **(5 marks)**

b) Discuss how the WAN has affected the society today.   **(15 marks)**

Question Four (20 marks)

a) What is the function of a repeater on a network?   **(3 marks)**

b) Give **ONE** advantage of a hub on a network.   **(2 marks)**

c) Discuss the **THREE** types of networks.   **(15 marks)**

Question Five (20 marks)

a) Explain the line of sight principle in wireless transmission.   **(8 marks)**
b) Outline any **SIX** open interconnection (OSI) reference model.   **(12 marks)**