



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY
DIPLOMA IN INFORMATION & COMMUNICATION TECHNOLOGY
DICT 2K 9J, DICT 9M

EIT 2308: NETWORK II

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A & B**

Answer 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

SECTION A COMPULSORY (30 MARKS)

Question 1

- a) A certain technician has configured two outdoors access points at Mwakirunge location in Mombasa County. One mounted at the top of his father's house and the second one mounted at the top of their neighbor's house, 500 metres apart. He is able to browse when he is inside his father's house as well inside their neighbor's house. However, he cannot roam from area to area and still be connected to the wireless network. As a student of IT, advice him on how to set up his two or more access points for roaming, (10 marks)
- b) Explain any **three** wireless network threats. (6 Marks)
- c) Explain antenna choices in wireless networks. (6 marks)
- d) Explain **two** main functions of a wireless access point. (4 marks)
- e) Highlights **four** uses of a Bluetooth. (4 marks)

SECTION B (ANSWER ANY TWO QUESTIONS)

Question 2 (15 marks)

- a) Explain the meaning of the following as used in wireless networking (10 marks)
- i) SSID
 - ii) Residential gateway.
 - iii) Ad-hoc networks
 - iv) WEP
 - v) Latency
- b) Write short notes on Wave and Frequencies as used in wireless networks. (5 Marks)

Question 3 (15 marks)

- a) State and explain **five** requirement features that should be available for a wireless network to be secure. (10 marks)
- b) Explain any **three** types of wireless network adaptors (5 Marks)

Question 4 (15 marks)

- a) Explain **three** reasons why so many businesses are getting into the hot spotting business. (6 marks)
- b) Explain **three** ways of trouble shooting wireless networks (9 Marks)

Question 5 (15 marks)

- a) State and explain **three** things one can do to secure the SSID. (6 marks)
- b) State and explain **two** most significant impairments in wireless transmission. (4 marks)
- c) Briefly describe any **three** wireless network standards in terms of speed, frequency and range. (5 marks)