



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY (DICT 10M-EV)

EIT 2308: WIRELESS NETWORKS

END OF SEMESTER EXAMINATION SERIES: DECEMBER 2012
TIME: 2 HOURS

You should have the following for this examination

- Answer Booklet

This paper consist of **FIVE** questions 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 **Question One (Compulsory)** a) Name any **THREE** wireless devices. (3 marks) **b)** Outline **FOUR** services offered within any wireless network. (4 marks) **c)** What are the frequency ranges for the following network communication. (2 marks) Mobile network (i) Wifi (ii) Infra red (6 marks) (iii) d) Highlight **SEVEN** drawbacks of a wireless network. **Question Two a)** Explain the following as used in wireless: Bandwidth (ii) Access control (6 marks) b) List **FOUR** wifi EEE 802.11 technologies. (4 marks) c) Explain any **TWO** wifi 802.11 security methods. (6 marks) d) Outline the advantages of infrastructure A.P mode an Access Point mode. (4 marks) **Question Three** Explain any **TWO** parts of a mobile network architecture. (8 marks) **b)** Describe how a person on call can move around towns without his/her call being terminated. (8 marks) c) Explain call dropping. (4 marks) **Question Four a)** Explain the difference between 3G and 2G of GSM network. (6 marks) b) Briefly explain how an international call is routed to its destination. (10 marks) c) List **FOUR** advantages of cellular network. (4 marks) **Question Five**

c) Using a well labeled diagram, shows SIX BTS Base transceiver station interconnect.

a) Name the **TWO** parts of a mobile network incharge of switching functionality.

(4 marks)

(8 marks)

b) Explain the components that make up a mobile station MS.