

THE TECHNICAL UNIVERSITY OF MOMBASA

## Faculty of Engineering & Technology

## **DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

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

**EIT 2308: WIRELESS NETWORKS** 

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: FEBRUARY 2013 TIME: 2 HOURS

Instructions to Candidates: You should have the following for this examination - Answer Booklet This paper consist of FIVE questions

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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)**

<ul> <li>a) What is a wireless network?</li> <li>b) Explain FOUR drawbacks of any wireless network.</li> <li>c) Define bandwidth as used in wireless network.</li> <li>d) Outline THREE reasons why wireless network is better</li> </ul>	(3 marks) (12 marks) (2 marks) (3 marks) (3 marks)
Question Two	
a) Briefly describe FOUR wifi 802.11 technology.	(8 marks)
<b>b)</b> Differentiate between WEP and WAP2 Enterprise Secu	-
c) Name TWO types of networks that can be set up using	g Wifi 802.11 technology. (6 marks) (2 marks)
d) Explain the meaning of SSID	(2 marks)
e) Name any TWO WEP key password format.	(2 marks)
Question Three	
a) Outline any FOUR services offered by cellular wireles	es network. (4 marks)
<b>b)</b> Explain the functions of MSC as applied in mobile network	works. (6 marks)
c) Briefly describe the way an international call is routed	to its destination. (10 marks)
Question Four	
a) Explain the difference between CDMA and GSM.	(6 marks)
<b>b)</b> Explain the differences in file transfer as applied in Wi	fi 802.11 and Bluetooth. (6 marks)
<ul> <li>c) List the frequency range of operation for the following</li> <li>(i) Mobile network</li> <li>(ii) Bluetooth</li> <li>(iii) Wimax</li> <li>(iv) Wifi</li> </ul>	: (2 marks) (2 marks) (2 marks) (2 marks)
Question Five	
a) Explain how the WDS feature works on a wireless rout	ter. (4 marks)
<b>b)</b> What is the difference between wireless router and according to the difference be	ess point? (6 marks)
c) Name and explain any FOUR natural causes that will result to wireless signal fluctuation.	

(10 marks)