

TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

EIT 2203: WIRELESS TECHNOLOGY

END OF SEMESTER EXAMINATION

SERIES:AUGUST2019

TIME:2HOURS

DATE: Pick Date Aug 2019

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of FIVE questions. Attemptany THREE questions.

Do not write on the question paper.

Ouestion ONE

a) Define the following technologies:-

	i.	Wireless client	(2marks)
	ii.	Wireless Access Point	(2marks)
	iii.	Wireless communication	(2marks)
b)	b) Describe Five characteristics of an Access Point		
c)	State	six components of a telecommunication network	(6marks)

Question TWO

a)	Explain four major physical components of 802.11 networks	(8marks)
b)	List four benefits of a wireless network	(4marks)
c)	Explain three basic building blocks of 802.11 networks	(8marks)

Question THREE

- a) Define the following terms:
 - i. OSI model
 - ii. Bluetooth technology (4marks)
- b) Describe four functions of the network layer in the OSI model (8marks)
- c) Explain four benefits of CDMA for a cellular network (8marks)

Question FOUR

- a) Differentiate among the five generations of cellular technology (10marks)
- b) Explain any four reasons that has led to the first growth of wireless systems usage (8marks)
- c) Describe two characteristics of cellular telephone systems (2marks)

Question FIVE

- a) With the aid of a diagram, explain the various bands of electromagnetic spectrum (12marks)
- b) Explain the following technologies:
 - i. Frequency Division Multiple Access (FDMA) (2marks)
 - ii. Time Division Multiple Access (TDMA) (2marks)
 - iii. CDMA (2marks)
- c) State two benefits of 5G communication technology (2marks)