TECHNICAL UNIVERSITY OF MOMBASA

## INSTITUTE OF COMPUTING AND INFORMATICS <br> DEPARTMENT OF COMPUTER SCIENCE \& INFORMATION TECHNOLOGY UNIVERSITY EXAMINATION FOR: DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY EIT 2203: WIRELESS TECHNOLOGY END OF SEMESTER EXAMINATION <br> SERIES:AUGUST2019 <br> TIME:2HOURS <br> DATE: Pick DateAug2019

## 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.

## Question ONE

a) Define the following technologies:-
i. Wi-Fi (2marks)
ii. Bluetooth
b) Describe Five characteristics of Bluetooth technology
c) Explain three key challenges of wireless LAN
(2marks)
(10marks)
(6marks)

## Question TWO

a) With the aid of a diagram, explain the four components of 802.11 network
b) Describe three basic service sets of 802.11 networks
c) Differentiate between connection-oriented and connection-less service network
d) Define a wireless client

## Question THREE

a) Explain two characteristics of 5G communication technology
b) State four benefits of 5G communication technology
c) State four functions of the session layer in the OSI model
d) List four benefits of 802.11 networks

## Question FOUR

a) Describe two types of Access points
b) Differentiate among the five generations of cellular technology
c) Define cellular technology
(4marks)
d) Explain two applications of modern paging systems
(10marks)
(2marks)
(4marks)

## Question FIVE

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

