

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.**

Question ONE

| a) | Define the following technologies:- | | |
|----------------|---|---------------------------|--|
| | i. Wi-Fi | (2marks) | |
| | ii. Bluetooth | (2marks) | |
| b) | Describe Five characteristics of Bluetooth technology | (10marks) | |
| c) | Explain three key challenges of wireless LAN | (6marks) | |
| Question TWO | | | |
| a) | With the aid of a diagram, explain the four components of 802.11 network | (8marks) | |
| b) | Describe three basic service sets of 802.11 networks | (6marks) | |
| c) | Differentiate between connection-oriented and connection-less service network | (4marks) | |
| d) | Define a wireless client | (2marks) | |
| Question THREE | | | |
| a) | Explain two characteristics of 5G communication technology | (4marks) | |
| b) | State four benefits of 5G communication technology | (4marks) | |
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| c) State four functions of the session layer in the OSI model | (8marks) |
|--|-----------|
| d) List four benefits of 802.11 networks | (4marks) |
| Question FOUR | |
| a) Describe two types of Access points | (4marks) |
| b) Differentiate among the five generations of cellular technology | (10marks) |
| c) Define cellular technology | (2marks) |
| d) Explain two applications of modern paging systems | (4marks) |
| Question FIVE | |
| 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) |