



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

**END OF SEMESTER EXAMINATIONS
FIRST YEAR FIRST SEMESTER**

**FOR DOCTOR OF PHILOSOPHY IN
(INFORMATION TECHNOLOGY)**

COURSE CODE: PIT 911

**COURSE TITLE: ADVANCES IN INFORMATION TECHNOLOGY
MANAGEMENT**

DATE: 26/11/2021

TIME: 9.00 A.M. - 12.00 NOON

INSTRUCTIONS

ANSWER ANY THREE QUESTIONS.

QUESTION ONE [20 MARKS]

“The eventual goal of the 5G wireless networking is to have relatively fast data speeds, incredibly low latency, substantial rises in base station’s efficiency and quality of service for customers relative to existing networks”. Argue for or against the statement with a focus on its relevance to modern organization

QUESTION TWO [20 MARKS]

The current technological revolution, known as Industry 4.0, is determined by the development of the following technologies of advanced information processing: Big Data database technologies, cloud computing, machine learning, Internet of Things, artificial intelligence, Business Intelligence and other advanced data mining technologies. There is an impact on business management processes through the use of ICT and Industry 4.0 information technologies. Argue for or against the fact that enterprise management process can significantly be improved by using ICT and Industry 4.0 management

QUESTION THREE [20 MARKS]

Biometric security systems are perceived to provide an effective means for ensuring that the privacy rights of any citizen can be secured by accurately and timely identifying individuals without the need to rely on the use of identification papers or information that an individual must provide. With this in place, the development and uses of biometric technology are increasing rapidly. Discuss the truthfulness of this statement

QUESTION FOUR [20 MARKS]

It is perceived that the rapid growth of Cloud Computing is a natural extension of modern Innovation. Thus, cloud computing is a secure and economically viable solution to hosting and maintaining vast Information Technology infrastructure. Discuss

QUESTION FIVE [20 MARKS]

Blockchain has significant potential to enable a move to cleaner and more resource-preserving decentralized solutions, unlock natural capital and empower communities if harnessed in the right way. Discuss