



(Knowledge for Development)

**KIBABII UNIVERSITY
(KIBU)**

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
YEAR 2 SEMESTER 2**

**FOR THE DEGREE OF
MASTER OF SCIENCE (INFORMATION TECHNOLOGY)**

COURSE CODE : MIT 826

**COURSE TITLE : INFORMATION TECHNOLOGY &
EMERGING ISSUES**

DATE: 20/10/2018

TIME: 2.00 PM – 5.00 PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.

ALL QUESTIONS CARRY 20 MARKS EACH

SECTION A (Compulsory – 20 Marks)

QUESTION 1

- (a) Explain the term Business Intelligence (6 Marks)
- (b) Outline five common functions of Business Intelligence (5 Marks)
- (c) Discuss Systems and innovation opportunities (9 Marks)

SECTION B (Attempt any two questions – 40 Marks)

QUESTION 2

- a) Explain each of the following terms in relation to the Copyright Act, 2001 under the Laws of Kenya Chapter 130:
 - (i) Author (2 Marks)
 - (ii) Broadcast (2 Marks)
 - (iii) Copy (2 Marks)
 - (iv) Infringing copy (2 Marks)
 - (v) Licence (2 Marks)
- b) Discuss any of the following solutions of security issues in cloud computing:
 - (i) Vulnerability shielding (2 Marks)
 - (ii) Split-key Encryption Technologies (2 Marks)
- (c) Explain six significant developments which have been achieved in the course of the evolution of information technology, hence making information technology the driving force within today's innovation. (6 Marks)

QUESTION 3

- (a) Discuss briefly the concept of Technology Strategy Formulation (TSF) (5 Marks)
- (b) Discuss the concept of Big data and analytics (5 Marks)
- (c) Cloud Computing is a modern technology that uses the internet as well as central remote servers to maintain data and applications.
Briefly explain five benefits of cloud computing (10 Marks)

QUESTION 4

The field of analytics has grown many folds in recent years.

- (i) Explain the concept of analytics (2 Marks)

Analytics is a process which helps in discovering the informational patterns with data. The field of analytics is a combination of statistics, computer programming and operations research.

Explain three types of analytics

(6 Marks)

Discuss the impact of Internet revolution in Business

(12 Marks)

QUESTION 5

- (a) Cloud computing offers three types of broad services mainly Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service (SaaS).

Outline three benefits of cloud computing

(3 Marks)

- (b) Day by day, mobile phones are becoming the essential part of our life.

Discuss five benefits of using mobile phones for business

(10 Marks)

- (c) In the modern age of cutting-edge technology and continuous innovation, product life cycle is ever shortening. There is constant pressure on companies to differentiate from competition and earn customer satisfaction. In such a business environment, it is essential that internal organization network is strong and efficient to deal with any kind of changes. This is achieved by the use of the 7S framework.

Highlight the factors of the 7S Framework.

(7 Marks)