



(Knowledge for Development)

**KIBABII UNIVERSITY
(KIBU)**

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
YEAR 1 SEMESTER 1**

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

COURSE CODE : MIT 812

COURSE TITLE : BUSINESS INFORMATION SYSTEMS

DATE: 20/10/2018

TIME: 9.00 AM – 12.00 PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.

1. A transport and logistics company has decided that it no longer requires a Head Office and its strategic aim is to become a virtual organisation.
 - (a) Discuss the various BIS technologies that could be used to create a virtual organisation. (10 marks)
 - (b) The company's auditors have concerns that information held by the virtual company would lack security. List and describe FIVE measures that could be adopted to ensure this information remains secure. (10 marks)

2. Cloud computing is making considerable progress into areas of MIS that are traditionally provided and managed within the physical perimeter of an organisation.
 - (a) Describe the aspects of cloud computing which may challenge conventional thinking in the provision of Business Information Systems. (8 marks)
 - (b) Kibabii University that is a recently chartered university has also adopted cloud computing in its management of data. Discuss the challenges of Cloud Databases that the directorate of Information and Communication Technology should urgently plan for (12 marks)

3. End user computing is a long established part of the culture in the company you have just joined as Head of MIS. While you knew this before taking up the post, you are surprised by the extent to which the company relies on departmental spreadsheets and databases that have been developed over many years by various teams in the organisation.
 - (a) Define end user computing. (2 marks)
 - (b) Describe FIVE success criteria for end user computing. (10 marks)
 - (c) Discuss how the success of end user computing could be measured. (8 marks)

4. (a) Describe business process re-engineering (6 marks)
 - (b) The best system will fail without the support of the people it serves. So the behavioral aspects of change are crucial hence the need to be aware of and sensitive to the types of behavioral problems that can result from change.
 - (i) Why Behavioral Problems Occur (6 marks)
 - (ii) Explain how you may improve the reactions to change in business re-engineering programs (8 marks)

5. (a) Explain any four characteristics of Big Data (8 marks)
 - (b) Explain to the Governor of Bungoma County how the county stands to benefit by incorporating Big data analytics in its operations (12 marks)