

UGANDA MARTYRS UNIVERSITY

FACULTY OF BUSINESS ADMINISTRATION AND MANAGEMENT

END OF SEMESTER FINAL ASESSMENT

SEMESTER II, 2017/18

INTRODUCTION TO INFORMATION SYSTEMS

DATE: 4TH May 2018

TIME: 9:30am – 12:30pm

DURATION: 3HRS

Instructions:

1. Carefully read through ALL the questions before attempting
 2. Attempt **ANY** Five questions
 3. All Questions carry equal marks
 4. No **names** should be written anywhere on the examination book.
 5. Ensure that your **Reg number** is indicated on all pages of the examination answer booklet.
 6. Ensure your work is **clear** and **readable**. Untidy work shall be penalized
 7. Any type of examination Malpractice will lead to automatic disqualification
 8. Do not write anything on the questions paper.
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Question One

- a) In everyday speech, we do not always draw a clear distinction between the terms “data” and “information”, but the difference between the two is vital to the understanding of what Information Systems is all about. With examples differentiate the two **(2 Marks)**
- b) We live in a time where of *information overload*. Therefore as a student of Information Systems, it is becoming a vital survival skill to assess the quality of information. Describe any five *characteristics* or *attributes* that distinguish “good” from “bad” information? **(10 marks)**
- c) (b) Explain four ways how the use of an information system could improve on running of a company like Uganda Martyrs University **(8 marks)**

Question Two

- a) What do you understand by a system? **(2 marks)**
- b) Consider the Zeevirsty, particular the Zeepay Software Uganda Martyrs University is using for Students’ fees payment or any large banking institution like Centenary Bank following two systems:
 - i. For *each* system give examples of the system goal or purpose, **(2 marks)**
 - ii. Give two examples of inputs to the system **(2 marks)**
 - iii. Give two examples of outputs of the system **(2 marks)**
 - iv. Give two components of the system **(2 marks)**
 - v. Give two examples of processes in the system **(2 marks)**
- c) With a well labeled diagram, draw all the elements of a system **(8 Marks)**

Question Three

- a) What is a computer virus? **(2marks)**
- b) If not careful, the virus can spreads rapidly and damage the company’s information systems
 - i. How may a virus be transmitted to a computer, give three ways **(6 marks)**
 - ii. Suggest three precautions that you could take to reduce the risk of your PC becoming infected with a virus. **(6 marks)**
 - iii. How may a virus be prevented from attacking a network? Give three ways **(6 marks)**

Question Four

- a) What is an information system? **(2 marks)**
- b) With examples clearly describe the components of an information System. **(6 marks)**
- c) Explain the following terms: **(10 marks)**
 - (i) Database
 - (ii) Networks
 - (iii) Backup
 - (iv) Storage media

(v) Database Management System

Question Five

- a) Why is a backup strategy important to an organisation? **(2 marks)**
- b) Explain any five challenges involved in building, operating, and maintaining information systems today? **(10 marks)**
- c) While some organizations may prefer to build their information systems, other prefer to outsource. Explain any two advantages and two disadvantages of Facilities Management outsourcing. **(8 marks)**

Question Six

- a) Distinguish between knowledge and information **(4 marks)**
- b) Identify and describe the four levels of the organizational hierarchy. **(6 marks)**
- c) List and briefly describe the major types of information systems in organizations. **(8 marks)**

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