



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS**  
**UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELORS OF**  
**EDUCATION WITH I.T**  
**2<sup>ND</sup>YEAR, 1<sup>ST</sup> SEMESTER 2017/18 ACADEMIC YEAR**  
**NAMBALE CAMPUS**

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**COURSE CODE: SCS 214**

**COURSE UNIT: MANAGEMENT INFORMATION SYSTEM**

**EXAM VENUE: NAMBALE CAMPUS**

**STREAM:EDU**

**DATE: DECEMBER, 2017**

**TIME: 2 HOURS**

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Instructions

1. Answer question one (compulsory) and any other two questions
2. Candidates are advised not to write on the question paper
3. Candidates must hand in their answer booklets to the invigilator while in the examinations room

### **QUESTION ONE (30 MARKS)**

- a) Define Management Information System (2marks)
- b) Explain any THREE roles of Information systems in an organization. (3marks)
- c) Describe the information systems that would support the structured, semi-structured and unstructured decisions by the various levels of management in organizations (6marks)
- d) You are required to prepare a report on the composition of an information system to new employees of your company. Describe the contents your report? (9marks)
- e) Identify key components of a security policy that can be deployed in an organization (10 Marks)

### **QUESTION TWO (20 MARKS)**

- a) Examine FOUR factors that can determine the extent to which network performance degrades or slows down. (8 marks)
- b) Explain TWO strategies that business organizations can adopt to keep network costs low. (4 marks)
- c) Identify any FOUR common reasons for losing data in computer-based systems (4marks)
- d) Some of the major challenges facing the convergence of networks in businesses is performance, that is, the network can at times be painfully too slow and result in high interconnectivity costs. Explain the meaning of the terms “bandwidth” and “ interconnectivity costs”. (4 marks)

### **QUESTION THREE (20 MARKS)**

- a) As the chief information Officer in your firm. You are required to establish security controls in the information systems in the firm. Briefly explain FOUR types of controls you would suggest to be implemented in your firm. (8Marks)
- b) Explain the meaning of System Analysis and Design (2 marks)
- c) According to the French management theorist, Henri Fayol, managers perform five major functions. Explain these functions (10 marks)

#### **QUESTION FOUR (20 MARKS)**

(a) Transaction processing systems capture and process data resulting from the occurrence of business transactions, to update organizational databases in order to produce a variety of information products.

Required:

Explain the five stages of a transaction processing cycle. (10 marks)

(b) A data dictionary is a repository of information about data.

Explain the characteristics of a data dictionary. (4 marks)

(c) The concept of an intelligent workstation is a combination of a personal computer and access to a local or wide area network. The hardware, software and communication are integrated into one facility.

Required:

Define and differentiate functional integration and physical integration in a workstation environment. (6 marks)

#### **QUESTION FIVE (20 MARKS)**

(a) The company you work for intends to computerize its payroll application. Explain the functional capabilities that the system should have for it to serve the intended purpose. (8 marks)

(b) Outline four features of a word processing software package. (4 marks)

(c) Explain the importance of documenting and agreeing on the information systems requirements. (6 marks)

(d) Name the basic requirements for internet connectivity. (2 marks)