



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**CENTRE: KISII LEARNING CENTRE**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EARLY  
CHILDHOOD DEVELOPMENT**

**(SCHOOL BASED)**

**3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER 2013/2014 ACADEMIC YEAR**

**SCS 214: MANAGEMENT INFORMATION SYSTEMS**

**INSTRUCTIONS**

- 1. Answer question ONE(Compulsory) and any other TWO Questions**
- 2. Do not write anything on this question paper**

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

- a) Differentiate between information system and information technology (4 Marks)
- b) Define the following terms as used in system theory
  - i. A system
  - ii. Interfaces
  - iii. Synergy
  - iv. Feedback (4 Marks)
- c) Describe the components of an Expert System (6 Marks)
- d) Explain the major causes of information systems failure (4 Marks)
- e) What is a firewall? (2 Marks)
- f) Explain the features of a transaction processing system(TPS) (6 Marks)
- g) Explain four benefits of information systems (4 Marks)

### **QUESTION TWO 20 MARKS**

- a) Account for the difference between Information Systems for Top level management and those for Low level management (6 marks)
- b) State and explain two types of information systems under the knowledge level of an organization (6 Marks)
- c) Explain the importance of systems theory (4 Marks)
- d) State and explain four major types of reports that are generated in the management information system(MIS) (4 Marks)

### **QUESTION THREE 20 MARKS**

- a) Discuss five limitations of file-based systems and show how the use of the database approach can help to overcome such limitations. (10 Marks)
- b) Explain the components of Decision Support Systems (DSS) (6 marks)
- c) Outline the functions of information systems (4 Marks)

#### **QUESTION FOUR 20 MARKS**

- a) List four characteristics of information (2 Marks)
- b) Explain four kinds of structural organizational change that are enabled by information technology (8 Marks)
- c) Define the following terms as used in management information systems
  - i. Information security
  - ii. Attack (4 Marks)
- d) Describe the decision making process, including the types of decisions made for every level (6 Marks)

#### **QUESTION FIVE 20 MARKS**

- a) Describe the components of computer based information systems (CBIS) (12 Marks)
- b) Briefly describe security goals of an information system (6 Marks)
- c) Define executive support systems (ESS) (2 Marks)