

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2014/2015

**THIRDD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

**BIT 2119 : MANAGEMENT INFORMATION SYSTEM**

**DATE: APRIL 2015 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND**

**ANY OTHER TWO QUESTIONS.**

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**QUESTION ONE (30 MARKS)**

(a) Define the following terms: [8 marks]

1. System.
2. Dynamic system.
3. Cybernetic system.
4. Negative entropy.

(b) Describe synergy concept as the approach of management theory.

[4 marks]

(c) Explain the difference between an open system and a closed system.

[4 marks]

(d) Discuss factors that inform a choice of communication method.

[8 marks]

(e) Assuming that a system has 100 subsystems. Calculate the number of subsystems. [4 marks]

(f) Describe the relationships between internet, intranet, extranet and firewall. [4 marks]

**QUESTION TWO (20 MARKS)**

(a) Discuss the five fundamental components of a computer based information systems. [10 marks]

(b) Differentiate between data and information. [2 marks]

(c) Describe factors that make information a variable resource.

[8 marks]

**QUESTION THREE (20 MARKS)**

(a) Discuss the characteristics of information at the operation level of management. [7 marks]

(b) Describe digital deride phenomenon. [3 marks]

(c) Discuss the advantages exhibited by computer based information system. [5 marks]

(d) Discuss the attributes of a good decision support system.

[5 marks]

**QUESTION FOUR (20 MARKS)**

(a) Describe the supply chain management system. [3 marks]

(b) Discuss the scope of supply chain management. [7 marks]

(c) Describe a system development life cycle, stating clearly activities at each stage. [10 marks]