

MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations 2013/2014

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

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

SIT 107: INTRODUCTION TO INFORMATION SYSTEMS

Date: 17/12/2014 Time: 8:30 – 10:30 am

INSTRUCTIONS:

Answer question ONE and any other TWO questions

Question One (30 Marks)

a) Define the following

(4 marks)

- i. Information System
- ii. Computer
- iii. Data
- iv. Information
- b) Explain why information systems are so important today and how they are transforming organizations and management (10 marks)
- c) Discuss the three types of feasibility analysis organizations should use in the systems development process (6 marks)
- d) An information system depends on various resources, explain any five (10 marks)

Question Two (20 Marks)

- a) With the aid of a diagram explain the types of information systems that can be found in an organization (8 marks)
- b) Compare the major input and output devices (6 marks)

c) Differentiate the following: (6 marks) a. Systems analysis and systems design b. Logical design and physical design c. User perspective view and developer perspective view **Question Three (20 Marks)** a) Identify the hardware components in a typical computer system (12 marks) b) Explain the four levels of decision making (8 marks) **Question Four (20 Marks)** a) Why is the testing stage of systems development so important (2 marks) b) Name and describe the three stages of testing for an information system (6 marks) c) Name and distinguish between the two major software in a computer, giving an example of each (4 marks) d) Explain any four conversions that can be used in information systems development (8 marks) **Question Five (20 marks)** a) Differentiate between Ethics and Law and explain why ethics and law are needed in computing (5 marks) b) Differentiate between Patent and Copy rights. How can someone give proper credit to intellectual (4 marks) property c) Define structured and unstructured decisions. Give three examples of each (5 marks)

d) Powerful worldwide changes have been observed with the emergence of information systems.

(6 marks)

Explain any three of these changes