



MACHAKOS UNIVERSITY

University Examinations for 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR SECOND SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

SIT 107: INTRODUCTION TO INFORMATION SYSTEMS

DATE: 3/5/2019

TIME: 11.00-1.00 PM

INSTRUCTIONS

Answer **question ONE** and any other **TWO** questions.

QUESTION ONE (30 MARKS)

- a) Define the following terms used in Information systems (6 marks)
 - i. Bench marking
 - ii. Vision
 - iii. Information systems
 - iv. Strategy
- b) Different levels of management need different forms of information. Listing the three levels of management, discuss the types of information required. (9 marks)
- c) State THREE ways of recovering data from a virus attack, or corruption or loss (3 marks)
- d) What is a computer network and what are the four benefits of networking (6 marks)
- e) Explain the term **Change management** and any four Requirements before you introduce a change such as the use of a software instead of manual data processing (6 marks)

QUESTION TWO (20 MARKS)

- a) Distinguish between the following pairs of words:- (4 marks)
 - i. Data and information
 - ii. System software and application software

- b) Briefly explain **THREE** different classes /types of information systems in organizations. (6 marks)
- c) Explain **FOUR** applications of Decision Support (6 marks)
- d) Describe any **FOUR** features of Enterprise Resource Planning Systems (4 marks)

QUESTION THREE (20 MARKS)

- a) Distinguish between Executive and Transactional Information Systems (4 marks)
- b) Discuss any **FIVE** strategies that an organization can adopt in order to maintain a strategic competitive edge in the market. (10 marks)
- c) With an example, define the term Strategic Information System (2 marks)
- d) Explain why Decision Support System are applicable to all levels of management in an organization? (4 marks)

QUESTION FOUR (20 MARKS)

- a) Explain **FOUR** components of an information system (4 marks)
- b) State **THREE** disadvantages of downsizing as a way of cost reduction strategy. (3 marks)
- c) Explain any **FOUR** applications of Knowledge Based information systems (4 marks)
- d) Describe the MIS System development Life cycle (4 marks)
- e) Describe, giving a valid example how ICTs can be used to break time, geographic, cost and structural barriers faced by an organization. (5 marks)

QUESTION FIVE (20 MARKS)

- a)
 - i Explain the term “information system planning” (2 marks)
 - ii State two objectives of strategic planning (2 marks)
 - iii Differentiate intranet from extranet (2 marks)
- b) Explain the concept of outsourcing with regard to system development (4 marks)
- c) Outline three benefits of outsourcing (6 marks)
- d) Highlight four benefits of expert systems to organizations (4 marks)