



MACHAKOS UNIVERSITY

University Examinations for 2017/2018

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

**THIRD YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF
SCIENCE IN INFORMATION TECHNOLOGY**

SIT 307: MANAGEMENT INFORMATION SYSTEMS

DATE: 6/12/2017

TIME: 2.00-4.00 PM

INSTRUCTIONS:

QUESTION ONE (30 MARKS)

- a) Briefly discuss THREE aspects that entail Systems Security (6 marks)
- b) State and justify THREE characteristics of information (6 marks)
- c) For EACH of the following BIS development concepts, outline its key features and discuss its applicability to Business Intelligence (BI) systems development.
 - i. Traditional development approach. (7 marks)
 - ii. CASE tools (7 marks)
 - iii. Steering group (6 marks)

QUESTION TWO (20 MARKS)

- a) Explain the following: (4 marks)
 - i. Cloud computing
 - ii. Telecommuting
 - iii. Business process re – engineering
 - iv. Registers
- b) Distinguish between the Internet and the World Wide Web (4 marks)

- c) Describe the three types of media that can be used to connect computers together (6 marks)
- d) How can an organization prevent the security threats that it can encounter as a result of the introduction of computer based systems? (6 marks)

QUESTION THREE (20 MARKS)

- a) Describe THREE Aspects of Cloud Computing which may challenge the conventional thinking in the provision of Information Systems (12 marks)
- b) Explain how Information Systems be utilized to support a firm`s competitive strategies? (6 marks)
- c) Describe ANY TWO system CHANGEOVER strategies that may be considered for a conversion plan. (2 marks)

QUESTION FOUR (20 MARKS)

- a) “Storage as a Service (SaaS) is increasingly being adopted by organizations today.” Discuss what this concept of Information Systems is all about and the benefits it gives to start – up organizations (6 marks)
- b) Discuss how Social networking can bring value to the enterprise in the aspect of Customer Relationship management (6 marks)
- c) Outline the data processing cycle in a computer system. (8 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss and justify the following statement, “Mobile computing renders all Traditional IS/IT obsolete” (12 marks)
- b) Explain the purpose of the following: (4 marks)
 - i. CMOs memory
 - ii. Cache memory
 - iii. Computer bus
 - iv. Registers
- c) Briefly describe the Spiral Systems Development methodology (4 marks)