



MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF
SCIENCE IN COMPUTER SCIENCE

SCO 408: INFORMATION SYSTEMS MANAGEMENT

DATE: 1/8/2017

TIME: 2:00 – 4:00 PM

INSTRUCTIONS

*Answer question **ONE** and **Any** other **Two** questions*

QUESTION ONE (30 MARKS)

- a) Discuss why wireless networks are more susceptible to security problems and how businesses can protect them. (5 marks)
- b) Evaluate the role of information systems in today's competitive business environment. (5 marks)
- c) Discuss the benefits and challenges of enterprise systems and explain why a firm would want to build one. (7 marks)
- d) Describe five technology and business trends that have enhanced the role of information systems in today's competitive business environment. (5 marks)
- e) Although some companies find difficulties in justifying their information systems Investment other companies reported significant benefits from their IS projects. Discuss the various techniques that an organization can use to justify an investment in information systems. (8 marks)

QUESTION TWO (20 MARKS)

- a) Describe the architectural components of the Management Information System. (5 marks)
- b) Discuss why wireless networks are more susceptible to security problems and how businesses can protect them. (5 marks)

- c) Analyze the relationship among ethical, social, and political issues that are raised by information systems (5 marks)
- d) Assess the challenges of building information systems and management solutions. (5 marks)

QUESTION THREE (20 MARKS)

- a) Describe levels of management served by information systems (10 marks)
- b) Name and describe the different levels of I.T Infrastructure (6 marks)
- c) Identify and describe the technology drivers of IT infrastructure evolution (4 marks)

QUESTION FOUR (20 MARKS)

- a) Explain Nolan's Stages of IS Growth (9 marks)
- b) Explain the stages of the Information Technology Planning (6 marks)
- c) Highlight the issues in IT planning (5 marks)

QUESTION FIVE (20 MARKS)

- a) What are Moore's Law and the law of Mass Digital Storage? What aspects of infrastructure change do they help explain? (5 marks)
- b) Information systems (IS) have always been regarded as enablers for organizational transformation in ways that systems help in jobs automation, information processing and provide useful input for decision making. Discuss this statement in reference to decision making process in an organization. (15 marks)