MACHAKOS UNIVERSITY

University Examinations for 2017/2018

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE (COMPUTER SCIENCE)

SCO 423: INFORMATION SYSTEMS AUDITING

DATE: 6/12/2017 **TIME: 2.00-4.00 PM**

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

QUESTION ONE (30 MARKS)

a) Define contingency planning and explain its need in business continuity. (4 marks)

b) Using a well-drawn bulls-eye model,explain policy centric Decision making (4 marks)

c) Explain the following cyber-crimes. (10 marks)

(i) Theft of services

(ii) Root Kit

(iii) Spy ware

(iv) Phishing

(v) Warez

d) Using a diagram, explain three security goals used in information security. (6 marks)

e) Explain 6Ps in assessing a System. (6 marks)

QUESTION TWO (20 MARKS)

a) Explain three components of contingency planning(CP). (6 marks)

b) State the steps to be undertaken by contingency planners to ensure continuity across all CP processes. (6 marks)

c) Use a well labelled diagram to show contingency plan implementation timeline.(8 marks)

QUESTION THREE (20 MARKS)

a) State four testing strategies that can be used to test contingency plans. (4 marks)

b) Explain any four steps of computer forensics. (8 marks)

c) Explain any four technical controls when dealing with physical security (8 marks)

QUESTION FOUR (20 MARKS)

a) Explain any four ways of authenticating users before they are allowed to use a system. (8 marks)

b) State any five incident containment strategies as used in disaster recovery. (5 marks)

c) Using a diagram, show major tasks in contingency planning. (7 marks)

QUESTION FIVE (20 MARKS)

Develop a single contingency plan for Machakos University College Information, under the following sub-headings. (20 marks)

a) Incident Response

b) Disaster Recovery.

c) Business Continuity Planning using business impact analysis.

d) Prepare and execute a test of contingency plans.