



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATIONS: 2013/2014
IIT 3222: INFORMATION TECHNOLOGY POLICY AND STRATEGY
KISUMU LEARNING CENTER

DATE: DECEMBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

- i. This paper contains five (5) questions.
- ii. Question ONE is Compulsory and any other TWO questions
- iii. Answer the questions on the booklet provided
- iv. Mobile Phones are not allowed in exams room

QUESTION ONE 30 MARKS (COMPULSORY)

- a) What's your understanding of the following in relation to information systems {5 marks}
- i. Strategy
 - ii. Policy
 - iii. Standards
 - iv. Practices
 - v. Planning
- b) Discuss the following in relation to security policy {6 marks}
- i. EISP
 - ii. ISSP
 - iii. SysSP
- c) What does an information security blueprint entail {5 marks}
- d) Discuss the six major types of information systems clearly illustrating how they are integrated in a business. {6 marks}
- e) Define a Strategic Information System {4 marks}
- f) Clearly difference between policies, standards and practices, procedures , guidelines {4 marks}

Question Two

- a) Using an illustration , discuss the SecSDLC {8 marks}
- b) What are the main tasks undertaken in a SETA program {6 marks}
- c) Many organizations seek professional certification so that they can more easily identify the proficiency of job applicants. List at least SIX of these professional certifications. {6 marks}

Question Three

- a) ISO management model contains five areas. List these five areas and briefly discuss how each contributes to information security planning {10 marks}
- b) Information security planning can be divided into two namely organizational and contingency planning. Discuss the two areas with focus on JOOUST as an organization. {6 marks}
- c) Implementation of information security can be accomplished in two ways, elucidate {4 marks}

Question Four

- a) What are the basic elements of an ICT policy framework? List at least SEVEN elements {7 marks}
- b) Discuss what is entailed in the Business development framework of an ICT policy framework {4 marks}
- c) Has Kenya adopted an ICT strategy or master plan? Discuss giving examples for or against {9 marks}

Question Five

- a) Management has essential role in development, maintenance, and enforcement of information security policy, standards, practices, procedures, and guidelines. Discuss {6 marks}
- b) Elaborate on the following with respect to the design of security architecture {6 marks}
 - i. Defense in depth
 - ii. Security perimeter
- c) Explain the VISA international Security model {8 marks}