

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF INFORMATICS & INNOVATIVE SYSTEMS UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION WITH IT 4THYEAR 1ST SEMESTER 201/2016 ACADEMIC YEAR KISII CAMPUS-PART TIME

COURSE CODE: SCS 436

COURSE TITLE: INTERNAL CONTROL AND SECURITY ISSUES

EXAM VENUE:

STREAM: (BBA)

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer Question ONE (COMPULSORY) and ANY other 2 questions
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

QUESTION ONE

a) Describe the following types of internet security threats and provide there respective counter measures

i) Exploiting software bugs	[3 Marks]
ii) Denial of service	[3 Marks]
iii) TCP hijacking	[3 Marks]
iv) Packet sniffing	[3 Marks]
v) Social problems	[3 Marks]

b) Describe different types of security control requirement for the following levels

- i). Physical control [4 Marks]
- ii). Technical control [4 Marks]
- iii). Administrative control [4 Marks]

c) Discuss the key challenges a firm may face in conducting information system audit

[6 Marks]

QUESTION TWO

a) State why internal control of an information system infrastructure is so important for an organization

	[12 Marks]
b) Discuss the role of computer as a tool under the following crime	
i). Fraud	[2 Marks]
ii). Gambling	[2 Marks]
iii). Pornography	[2 Marks]
iv). Piracy	[2 Marks]
v). Harassment	[2 Marks]

QUESTION THREE

a) In reference to COSO's internal control framework, discuss the relevance of the following five inter-related standards for the entire information resource security.

i) Risk assessment	[3 Marks]
ii) Control activities	[3 Marks]
iii) Information and communication	[3 Marks]
iv) Monitoring	[3 Marks]

 b) State FOUR main issues an organization have to consider when implementing information system security policies [8 Marks]

QUESTION FOUR

a) Define the following terms in regards to information system security

i)	Confidentiality	[3 Marks]
ii)	Integrity	[3 Marks]
iii)	Availability	[3 Marks]
iv)	Physical security for IT assets	[3 Marks]

b) Discuss the role of an information system auditor in information system functionality

[8 Marks]

QUESTION FIVE

a) Explain how the internet challenges the protection of:-

i) Individual privacy	[5 Marks]
ii) Intellectual property	[5 Marks]

c) State reasons why security of data and information is a serious concern for internet users

[10 Marks]