CRSS 426

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF ARTS IN CRIMINOLOGY AND SECURITY STUDIES

CRSS 426: COMPUTER SECURITY

STREAMS: BA CRIMINOLOGY

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 05/12/2018

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

• QUESTION ONE IS COMPULSORY AND ANY OTHER TWO

QUESTION ONE: 30 MARKS

a)	Write three practical goals of an Intrusion Detection System	(2 marks)
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b) How can the following security parameters achieved :

c)

i)	Integrity	(2 marks)
ii)	Confidentiality	(2 marks)
iii)	Availability	(2 marks)

d) What is a dictionary attack? Briefly describe the two types of dictionary attacks(4 marks)

e) Explain 4 ways in which cyber crime/computer crime is being used in committing credit card fraud (4 marks)

f) Describe the following terms:

i) Cyber-attack	(2 marks)
ii). Computer fraud	(2 marks)
iii). Online scam	(2 marks)
iv). phishing	(2 marks)

	g)	What is computer security?	(2 marks)
	h)	What is a countermeasure in computer security? Discuss at least three maj countermeasures used.	or (4 marks)
QI	JES	TION TWO: 20 MARKS	
a)		hat are the two types of intrusion detection systems? Differentiate between bir characteristics	them by writing (8 marks)
b)	Wl	hat is cyberspace crime? Give examples	(4 marks)
c)	De	scribe some of the most common cyber-crimes in the world.	(8 marks)
QI	JES	TION THREE: 20 MARKS	
	a)	Discuss at least THREE categories of threats in relation to computer secur with appropriate examples	ity in details (6 marks)
	b)	Explain measures and methods that are employed to counter cyberspace carbon globe.	rimes across the (5 marks)
	c)	Why is Digital Crime Scene Preservation and Documentation phase ve achieving successful digital crime investigation	ery important in (6 marks)
	d)	What is your understanding of an <i>exploitable</i> vulnerability?	(3 marks)
QI	JES	TION FOUR:20 MARKS	
	a)	What is computer security policy? Discuss different types of computer sec details	curity policy in (8 marks)
	b)	Describe the differences between cyber warfare and cyber terrorism	(4 marks)

c) Explain why acquisition or imaging of exhibits very crucial in computer crime investigation process (6 marks)

e) What is an encryption key? (2marks)

QUESTION FIVE: 20 MARKS

d)	How does one protect computers against	cyber-attacks	(4 marks)
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e)	Describe of Digital forensic investigation model in details	(8 marks)
f)	How does ethical responsibilities affect cyberspace crimes?	(4 marks)
g)	What is social engineering in relation to computer security?	(2 marks)
h)	Define honey pots	(2 marks)