

JARAMOGI OGINGA ODINGA UNIVERSITY FOR SCIENCE & TECHNOLOGY

School of Informatics and Innovative Systems

Department of Computer Science and Software Engineering

KISUMU LEARNING CENTER

BSc Computer Security & Forensics

YEAR ONE: SEMESTER one September - December 2013

Course Code: IIT 3225

Course Title: Ethical Hacking and Penetration Testing

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

Question 1 - 30 marks				
a) Define the terms below?				
i.Hacker.	(2 marks)			
ii.Penetration Testing.	(2 marks)			
iii.Vulnerability.	(2 marks)			
iv.SQL Injection.	(2 marks)			
b) Who is an ethic hacker?	(2marks)			
c) What are 2 uses of the Whois website?	(4 marks)			
d) What is the domain name of the whois site used in class this semester?	(2 marks)			
e) What are 4 different types of soft infrastructure?	(4 marks)			
f) What are 4 techniques for creating a backdoor in a system?	(4 marks)			
g) State the 6 knowledge work activities that leading to the final results?	(6 marks)			
Question two 20marks				
a) State 7 types of security to consider before penetration testing?	(7 marks)			
b) What are 5 questions ethical hackers ask themselves before evaluating a systems security?				
	(5 marks)			
c) What is the purpose of reconnaissance in ethical hacking?	(2marks)			
d) What does SRP stand for and what is its application?	(4marks)			
e) What is one advantage and one disadvantage of using a firewall?	(2 marks)			
Ouestion three 20marks				

aj	What are 5 ways of events that are carried out to implement network security?	(6marks)
b)	What are 3 types of common system thefts what are 2 of their individual characteristics?	
		(9 marks)
c)	What are two ways to carry out social engineering?	(2marks)
d)	What is crack and what is its use in network security?	(3marks)

Question four 20marks

a)	State and define 5 vulnerabilities you to secure a computer for?	(10 marks)
b)	What are 2 standards of a security policy?	(2marks)
c)	What are 4 areas covered by user level policy?	(4 marks)
d)	What are 4 areas covered in system level policy?	(4 marks)

Question Five 20marks

a.	What are 5 legal hazards to watch out for when implementing an organizations' system		
	security policy?	(10 marks)	
b.	What 5 activities are carried out when verifying trust on your system?	(5 marks)	
c.	What are 3 types of copyright infringement?	(3marks)	
d.	What are two types of trademark infringement?	(2 marks)	