Ministry of Higher Education and Scientific Research-KRI Komar University of Science and Technology Final Exam Question Sheet

Fall 2022 (A)



Course Title: Computer Security

Course Code: CPE4385	Instructor: Susan Al Naqshbar	ndi, PhD
Date: January 6, 2023	Time : 9:00 am	
Duration : 2 Hours	No. of Pages: 2	Calculator: No
Student Name:		Student ID:
ALL ANSWERS	MUST BE WRITTEN ON THE PROVI	DED ANSWER SHEET.
Q1) Choose the appropriate w	ord from the following to fill the blanks.	(5 Points)
	y, Masquerade, Nonrepudiation, Virus, A , Digital Signature, Firewall, SDNs, Guid	
that additional concept	d to define security objectives is well estables are needed to present a complete pi	cture. Two of the most commonly
2- A take	s place when one entity pretends to be a d	ifferent entity.
3- Ai	is a password that is invalidated as soon as a construct that authenticates both the or	s it is used.
		rigin and contents of a message in a
	to a disinterested third party.	
5- Ac	an be a fault affecting the correctness of the	ne program's result that is, a fault can
lead to a failure.		11.1. 1.4.4
	is a program that can replicate itself and	pass on malicious code to other non-
malicious programs by 7- is the	process of how changes to anything are s	ourced analyzed and managed
8- is a co	mputer traffic cop that permits or block	rs data flow between two parts of a
	is the only link between parts.	s data now between two parts of a
9- Networks are progressi	vely migrating towards automation and vi	rtualization, which opens the door to
a new trend in security	that is specific to	
	ssifying security attacks, is in terms of p tive attacks and write the types and me	
2- Illustrate the four asp	ects of malicious code infections.	(2 Points)
3- Discuss the functions	and components of the layers that defin	
Q3) From your point of vie	ew, analyze in details <u>two</u> of the follow	(3 Points) ving and enrich your answer with (5 Points)
1- Physical security		

- 2- Infrastructure security
- 3- Database or Data center Security
- 4- Network and Internet Security

- Q4)1- The OSI security architecture provides a useful, if abstract, overview of many of the concepts of computer security. The OSI security architecture focuses on security attacks, mechanisms, and services. What are the most important mechanisms? List the mechanisms and describe one of them in detail. (5 Points)
 - 2- Instant messaging (IM) is another technology that has seen a change in recent years. Describe, indicate its security issues and support your answer with example. (5 Points)

Good Luck