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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute)

Affiliated to Dr. A.P. J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow
Course : B.Tech/M.Tech(Int) Branch : IT/CSE(R)/CSE /ECE

Semester : III Sessional Examination: First

Subject Name: Cyber Security Year- (2022- 2023)

Max. Marks:30

Time: 1.15 Hours

General Instructions:

- This Question paper consists of 2 pages & 5 questions. It comprises three Sections -A, B, & C. You are expected to answer them as directed.
- Section A -Q.No- 1 is of one 1 mark each & Q. No- 2 carries 2 mark each.
- Section B- Q. No- 3 carries 5 marks each.
- Section C -Q.No-4 & 5 carries 6 marks each. Attempt any one part a or b

<u>SECTION - A</u>			[8]	CO
1. Attempt all parts			[4×1=4]	CO
	a.	CIA Triad refers to : a. Confidentiality b. Integrity c. Availability <input checked="" type="checkbox"/> d. All	(1)	1
	b.	Passive attacks are : <input checked="" type="checkbox"/> a. Release of message content b. Replay c. Denial of service d. All of the above	(1)	1
	c.	Alice in Communication is the - <input checked="" type="checkbox"/> a. Sender b. Receiver c. Both d. None	(1)	1
	d.	Which of the following model is associated with Risk analysis? a. Waterfall model <input checked="" type="checkbox"/> b. Spiral model c. Evolutionary model d. None of the above	(1)	1
2. Attempt all parts			[2×2=4]	CO
	a.	Differentiate between Authentication and Authorization	(2)	1
	b.	Explain Zero-day attack.	(2)	1

SECTION – B

3.	Answer any <u>two</u> of the following-		
a.	Differentiate between Information assurance and Information security.	[2×5=10]	CO
b.	Explain various Security services.	(5)	1
c.	Explain Information security and Network security.	(5)	1
		(5)	1

SECTION – C

4.	Answer any <u>one</u> of the following-		
a.	Explain different attacks on the network in detail.	[1×6=6]	CO
b.	Differentiate between Phishing and Spamming.	(6)	1
		(6)	1
5.	Answer any <u>one</u> of the following-		
a.	Explain various guidelines for creating a secure password.	[1×6=6]	CO
b.	Explain Waterfall model in detail and its drawbacks.	(6)	1
		(6)	1

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SECTION – A			[08Marks]	
1.	All questions are compulsory-		(4×1=4)	
a.	A stateful firewall maintains a _____ which is a list of active connections. I. Routing table II. Bridging table <input checked="" type="checkbox"/> III. State table IV. Connection table		(1)	CO2
b.	It can be a software program or a hardware device that filters all data packets coming through the internet, a network, etc. it is known as the _____: I. Antivirus II. Firewall III. Cookies IV. Malware		(1)	CO2
c.	Identify a layer that comes after physical layer. I. Application layer II. Network layer III. Data link layer		(1)	CO2

		IV. Session layer		
	d.	Data security considerations are. I. Backups II. Archival of data III. Disposal of data IV. All	(1)	CO2
2.	All questions are compulsory-		(2×2=4)	
	a.	Discuss Golden rule of backups.	(2)	CO2
	b.	Difference between worm and virus.	(2)	CO2
SECTION – B			[10Marks]	
3.	Answer any <u>two</u> of the following-		(2×5=10)	
	a.	Explain electronic payment system in detail.	(5)	CO2
	b.	Briefly explain Security Threats.	(5)	CO2
	c.	Explain virtual private network (VPN).	(5)	CO2
SECTION – C			[12Marks]	
4.	Answer any <u>one</u> of the following-		(1×6=6)	
	a.	Explain Role based Access Control in detail.	(6)	CO2
	b.	Explain data security considerations in detail.	(6)	CO2
Subject Code:			(1×6=6)	
5.	Answer any <u>one</u> of the following-		(6)	
	a.	Explain all types of Firewall in detail.	(6)	CO2
	b.	Define Intrusion Detection Systems(IDS) and Explain of it's types.	(6)	CO2