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NC	JIDA	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute Affiliated to AKTU, Lucknow)
		B.Tech
		SEM: IV - THEORY EXAMINATION - (2023- 2024)
		Subject: Cyber Security
	ne: 2 H	
		<b>structions:</b> <i>y that you have received the question paper with the correct course, code, branch etc.</i>
		stion paper comprises of <b>three Sections -A, B, &amp; C.</b> It consists of Multiple Choice
		MCQ's) & Subjective type questions.
<b>2</b> . Ma	iximun	n marks for each question are indicated on right -hand side of each question.
		your answers with neat sketches wherever necessary.
		ruitable data if necessary.
	•	ly, write the answers in sequential order. should be left blank. Any written material after a blank sheet will not be
		hecked.
SEC	ΓΙΟΝ·	-A 15
	-	all parts:-
1-a.		Cyber Security means (CO1) 1
	(a)	Cyber Security provides security against malware
	(b)	Cyber Security provides security against cyber-terrorists
	(c)	Cyber Security protects a system from cyber attacks
1 1	(d)	All of the mentioned
1-b.		irewall types are - (CO2)
	(a)	Packet filtering
	(b)	Application Gateway
	(c)	Circuit level Gateway
_	(d)	All
1-c.	Т	The security activities involved in each phase of SDLC are (CO3) 1
	(a)	Description, dedication, encapsulation and output
	(b)	Description, synchronization, encryption, and outputs
	(c)	Description, outputs, synchronization and interdependencies
	(d)	Interdependencies, synchronization, outputs and action
1-d.	R	SA algorithm is cryptography algorithm. (CO4) 1
	(a)	Systematic
	(b)	Symmetric
	(c)	Asymmetric

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	(d) None	
1-e.	Email appears to originate from source other than actual- [CO5]	1
	(a) Email Spoofing	
	(b) Email Bombing	
	(c) Email spamming	
	(d) None of above	
2. Att	empt all parts:-	
2.a.	Differentiate between data and Information. [CO1]	2
2.b.	State the full form of OSI. (CO2)	2
2.c.	Explain the concept of virtualization. (CO3)	2
2.d.	Define Cryptography. [CO4]	2
2.e.	Explain Threats to Mobile Device Security. [CO5]	2
<u>SEC</u>	<u>FION-B</u>	15
3. An	swer any <u>three</u> of the following:-	
3-a.	Discuss in detail stages of Spiral model. Which stages differentiate it from Waterfall model? Do these stages make it a better model? CO1	5
3-b.	Explain components of Intrusion Detection System. (CO2)	5
3.c.	Discuss on security issues related to hardware data storage and downloadable devices. (CO3)	5
3.d.	Discuss security of AES and DES. Which one would you prefer to use while encrypting secret emails? [CO4]	5
3.e.	What is Cloud architecture? Explain the key aspects in maintaining cloud security. [CO5]	5
<u>SEC</u>	<u>FION-C</u>	20
4. An	swer any <u>one</u> of the following:-	
4-a.	Discuss passive attacks and it's types with example. CO1	4
4-b.	Define and differentiate between Vulnerability, Threat and Risk. CO1	4
5. An	swer any <u>one</u> of the following:-	
5-a.	Differentiate between Identification and Authentication. discuss with example. [CO2]	4
5-b.	Explain Data Security Considerations in detail. Explain in this reference Data Backup Security. (CO2)	4
6. An	swer any <u>one</u> of the following:-	
6-a.	Draw components of IDS. [CO3]	4
6-b.	Explain Application Development Security with guidelines. (CO3)	4
7. An	swer any <u>one</u> of the following:-	
7-a.	How VPN protects the information. Explain with example. [CO4]	4

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7-b.	Describe S/MIME protocol for emails [CO4]	4
8. Answe	er any <u>one</u> of the following:-	
8-a.	Explain need of Information System also explain the term ISMS. [CO5]	4
8-b.	Explain public key cryptography? Define its advantages and disadvantages. [CO5]	4

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