# SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA School of Computer Science & Engineering B. Tech. (All Branches under AEC Category)/Major Examination (Even) 2023-24

uestions: [15	Total Number of Questions: [15]	Date: 24.05.2024
of Pages: [01]	Total Number of Pages: [01]	Entry No:

Time Allowed: 3.0 Hrs.

Max Marks: [50]

### Instructions / NOTE

- Attempt All Questions.
- **=**: Support your answer with neat freehand sketches/diagrams, wherever appropriate.
- Ξ Assume any missing data to suit the case / derivation / answer.
- Show every step while solving a numerical/analytical/design based question.

Q15. Let you are security bre	Q14. Explain key towards 202	Q13. Explain cyl Recommend	Q12. What is signi with the hel Security.	Q11. Define the ter		Q10. Write short not	Q9. Define the term	Q8. Define the term	Q7. Point out the k	Q6. Define the term		Os Which of the fo	Q4. Which of the fo	a) White Hat Hackers	Q3. They are nefario	a) ip tracker	Q2. Which of the following or victim user?	Q1. Which of the fol a) Exploit	
Let you are leading a team of cyber security security breach case where you don't have any classification for solving the case. Explain in detail.	Explain key five layers in Cyber Security Plantowards 2025 in Indian scenario?	Explain cyber security hierarchy in India in proper Recommendations on Cyber security Framework for States	ficance of New Model of digital secu o of proper diagram. Point out key	Define the term "Cyber Security" and "Cyber Thr and cyber threats with the help of proper diagrams	Section-B	Write short note on Non-state actors from cyber security perspective	Phishing from cyber security perspe	Define the term DNS spoofing precisely with an example	Point out the key standard measures to establish confidentiality in cyber security	Define the term cyberspace precisely.	b) programs c	llowing DDoS in mobile systems wa	ollowing term refers to a group of hac	a) White Hat Hackers b) Black Hat Hackers c	ous hackers, and their main motive is	b) emails c) websites	lowing do Cyber attackers commonl	Which of the following act violates cyber security? a) Exploit b) Attack c) Threat	Section-A
Let you are leading a team of cyber security experts responsible for solving a critical security breach case where you don't have any clue except the breach. What key steps you will follow for solving the case. Explain in detail.	Explain key five layers in Cyber Security Planning. What are smart security solutions towards 2025 in Indian scenario?	or States.	ty? Explain Tactical Security in uture Technology to be Desig	Define the term "Cyber Security" and "Cyber Threat". Explain Evolution of Cyber Security and cyber threats with the help of proper diagrams.		rity perspective.	Define the term Phishing from cyber security perspective. Point out key types of phishing.	mple.	fidentiality in cyber security.		c) virus d) worms	Which of the following DDoS in mobile systems wait for the owner to trigger the cyber attack?	Which of the following term refers to a group of hackers who are both white and black hat?  Notice Hat backers h) Grey Hat hackers c) Red Hat Hackers d) White-Black Hat Hackers	c) Hactivists d) Gray Hat Hackers	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber	d) web pages	Which of the following do Cyber attackers commonly target for fetching IP address of a target or victim user?	d) Vulnerability	
[/0]	[0/]	[70]	[0/]	[07]		[20]	[20]	[20]	[20]	[-0]	[07]	[01]	[10]	613	[01]	601	[01]	[01]	

## SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA School of Computer Science & Engineering B. Tech. (Common to all) Mid-Sem Examination (Even) 20

70777	Total Number of Pages.	Total Number of Onest: [02]	1 to Cyber Security	3L AE102
Entry No.	2	Date: 20" March, 2025	Course Title: Introduction to Cyber Security	Course Code: CSL AE102

Time Allowed: 1 hour 30 minutes

Max Marks: [20]

Instructions / NOTE

i. Attempt All Questions.

It's mandatory to support your answer with detailed stepwise solutions along with neat freehand sketches/diagrams, wherever appropriate.

	Section – A (Attempt All questions)		
Q1.	1. Which of the following best describes the principle of least privilege in cyber security?  a. Users are granted minimal access rights necessary to perform their tasks b. Users are allowed temporary access rights	[01]	100
	c. Users have complete access to all system resources d. Users are restricted from accessing any resources		
<b>6</b>	A user receives an email from an unknown source asking for sensitive information. What is this type of attack called? a. Phishing b. Man-in-the-middle attack c. DoS attack d. DDoS attack	[10]	C02
<b>Q3</b> .	Which of the following options best defines an attack vector in terms of cyber security?	[01]	
	b. A hardware component that helps prevents denial-of-service attacks c. A technique to encrypt sensitive data during transmission d. A method or avenue used by cyber threats to gain unauthorized access to a system or network		00
Q4.	Which of the following is a common type of social engineering attack?  a. Brute force attack  b. Distributed Denial of Service (DDoS) attack c. Phishing attack  d. SQL injection attack	[01]	C02
	Section – B		
05.	Briefly describe the types of spyware. How does a spyware work?	[04]	CO1
Ó6.	Differentiate DoS attack from DDoS attack. Give two examples of DoS attack.	[04]	C02
07.	Discuss different types of hackers along with their intentions and approach.	[04]	CO1
08.	Discuss life cycle of an APT. What makes it different from logic bomb.	[04]	C02
	OR		
65	Describe zero-day vulnerability and software patches. List some of the common vulnerabilities in cybersecurity.	[04]	C02

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Date: 29th July, 2025

Total Number of Pages: [01] Total Number of Questions: [10]

Gourse Title: Introduction to Cyber Security

Course Code: CSL AE102

Time Allowed: 3 hour

### Instructions / NOTE

Max Marks: [40]

- Attempt All Questions.
- It's mandatory to support your answer with detailed stepwise solutions along with neat ·ii. freehand sketches/diagrams, wherever appropriate.

	Section – A (Attempt All questions)		
91/	Briefly define cyberspace and attack surface.	2	COI
92/	malware replicate itself and require host file but malware is self-dependent for its replication.	2	CO2
03	Briefly define personal and non-personal data.	2	CO4
01	Discuss, how bigdata is different from data?	2	CO4
Q5	Differentiate data protection from data privacy.	2	CO4
	Section – B		Market Broken
Q6	Discuss in detail the ethical and legal concerns associated with use of All and generative Al now a days.	6	CO3
· Q7	Explain the major adoption with the implementation of IT act 2000 in India. Discuss the limitations of this act as well.	4+3	CO3
08	Discuss Phishing, Vishing and Smishing along with suitable examples.	2+2+2	CO2
Q9/	Describe threat, risk and vulnerability in context of cyber security. Discuss some common vulnerabilities of password-based authentication.		CO2
•Q10	Discuss Email Scams, Online Job fraud and Online Payment Fraud with suitable examples.	2+2+2	COS

SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA School of Computer Science & Engineering

B. Tech. (All Branches under AEC Category) /Minor-1 Examination (Odd) 2024-25

Entry No:		7 to 1			
Date: 26.02.2	024			اجبا	- 1

Total Number of Pages: [01] Total Number of Questions: [07]

Course Title: Introduction to Cyber Security

Course Code: CSL AE102

Time Allowed: 1.0 Hrs.

Max Marks: [20]

### Instructions / NOTE

- i. Attempt All Questions.
- Support your answer with neat freehand sketches/diagrams, wherever appropriate. ii.
- Assume any missing data to suit the case / derivation / answer. iii.
- Show every step while solving a numerical/analytical/design based question. iv.

	Section-A	-
Q1.	Which of the following is defined as an attempt to steal, spy, damage or destroy computer systems, networks, or their associated information?  (A) Cyber attack  (B) Computer security  (B) Cryptography  (D) Digital hacking	[01]
Q2.	Which of the following is a type of cyber security?  (A) Cloud Security  (B) Network Security  (C) Application Security  (D) All of the above	[01]
Q3.	What are the features of cyber security?  (A) Compliance (B) Defense against internal threats (C) Threat Prevention (D) All of the above	[01]
Q4.	Define the term Digital Signatures. Give a most common example of digital signatures.	[02]
	Section-B	
Q5.	Define the term "Cyber Crime". Point out various Cyber Crimes. How you can combat cyber crimes?	[05]
Q6.	What do you understand by Cyber Threats? Point out Various Types of Cyber Threats. Also point out key tips for cyber safety.	[05]
Q7.	Define the term "Computer Virus". Why Do people Create These Viruses? Classify Various Types of Viruses. Is it legal or illegal to create computer viruses?	[05]

### SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

School of Computer Science & Engineering

B. Tech. (All Branches under AEC Category) /Minor-2 Examination (Odd) 2024-25

Entry No:	energia stratar nela, in primitare i ti consista qui cistatoria, il in simprorta est carbon qui camori stratori di discretibilitare	Total Number of Pages: [01]
Date: 08.04.2024		Total Number of Questions: [07
	urse Title: Introduction to	Cyber Security
	Course Code: CSL A	XE102

Time Allowed: 1.0 Hrs.

Max Marks: [20]

### Instructions / NOTE

- i. Attempt All Questions.
- Support your answer with neat freehand sketches/diagrams, wherever appropriate. ii.
- Assume any missing data to suit the case / derivation / answer. iii.
- Show every step while solving a numerical/analytical/design based question. iv.

	Section-A	
Q1.	Which of the following type of data, phishers cannot steal from its target victims?  (A) bank details (B) phone number	[01]
	(C) passwords (D) apps installed in the mobile	
Q2.	A tries to formulate a web resource occupied or busy its users by flooding the URL of the victim with unlimited requests than the server can handle.	[01]
	(A) Phishing attack (B) DoS attack (C) Website attack (D) MiTM attack	
Q3.	DNS stands for	[01]
<b>Q</b> 3.	(A) Data Name System (B) Domain Name Server (C) Domain Name System (D) Domain's Naming System	
Q4.	What is Ransomware in cyber security? What do's and don'ts you will take in such matter?	[02]
	Section-B	
Q5.	What are key causes of Cyber attack? What precautions you will take to secure your Mobile Device? Point out each.	[05]
Q6.	What exactly a malware is? Give 5 Examples of Malware. Differentiate Computer Virus, Network worm and Trojan Horse.	[05]
Q7.	What is significance of social engineering from cyber security perspective?  Describe MHA Recommendations to maintain proper Cyber Security.	[05]