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TECNIA INSTITUTE OF ADVANCED STUDIES

MCA

Class Test (2025-26)

Shift: M

Division: A

Sem: I

Set-1

Date: 

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Time: -1:00 Hours

Max. Marks: 30

**General Instructions:**

- All Questions are compulsory. Answers should be brief and to the point.
- It comprises three sections, A, B, and C. you are to attempt all the sections.
- Section A – Question No -1 is Very Short Answers type carrying 2 marks each. You are required to answer ALL.
- Section B- Question No-3 is Short Answers type question carrying 5 marks each. You are required to attempt any TWO out of THREE questions given.
- Section C- Question No -4 is Long Answer type question carrying 10 marks each. You need to attempt any one.
- Students are instructed to cross the blank sheets before handing over the answer sheet to the invigilator.
- No sheet should be left blank. Any written material after a blank sheet will not be evaluated /checked.

		CO	BT	M
<b>SECTION –A</b>				<b>(10)</b>
<b>1.</b>	<b>Attempt All of the following.</b>			<b>(5*2=10)</b>
a.	Define Cyber Security and mention its three core principles	CO1	L1,L2	
b.	Differentiate between Cybercrime and Cyber Offense	CO1	L2,L3	
c.	List any two common vulnerabilities found in software systems	CO2	L1,L2	
d.	What do you mean by Data Diddling? Give one real-life example	CO2	L1,L2,L3	
e.	Define “Phishing” and “cyber-squatting”	CO2	L1,L2	
<b>SECTION –B</b>				
<b>2.</b>	<b>Answer any Two of the following.</b>			<b>(2*5=10)</b>
a.	Explain the major challenges and constraints associated with Internet Governance in the modern digital world.	CO1	L2,L4	
b.	Describe steganography and contrast it with cryptography. Provide one real-world abuse example	CO1,CO2	L2,L4	
c.	Explain Cross-Site Scripting (XSS) types and provide a code-level mitigation for each	CO2	L3,L4	
<b>SECTION –C</b>				
<b>3.</b>	<b>Answer any One of the following.</b>			<b>(1*10=10)</b>
a.	Describe attacks on mobile phones and suggest preventive measures to protect organizations from such threats.	CO3	L2,L3,L4	
b.	Explain in detail various Cyber Security Vulnerabilities such as Phishing, Keyloggers, Viruses, Worms, and Buffer Overflow.	CO4	L2,L4,L5	

	How can organizations mitigate these risks using effective Cyber Security Safeguards?			
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