

	<b>RV College of Engineering®</b> <b>Department of Computer Science and Engineering</b> <b>CIE - II: Test Paper</b>		
<b>Course &amp; Code</b>	<b>INTRODUCTION TO CYBER SECURITY</b> <b>(CS114BT)</b>		<b>Semester: I</b>
<b>Date: 29/12/2023</b>	<b>Duration:</b> 90 minutes	<b>Max.Marks :</b> 50 Marks	<b>Staff :MH/ARA/TP</b>
<b>USN :</b>	<b>Name :</b>		

**NOTE:** *Answer all the questions*

Sl.no.	Questions	Marks	* BT	*CO
1.a	Define passive attack. List and briefly explain the tools used in passive attack	06	L3	CO5
1.b	List and explain the three phases involved in planning a cyber-attack.	04	L3	CO3
2.a	Explain the following in detail i. Shoulder surfing ii. Dumpster Driving	06	L2	CO2
2.b	What are the precautions one need to take when doing online transactions in Cyber Café.	04	L3	CO1
3.a	Consider the following law suite that filed The lawsuit was filed by Lane’s Gifts and Collectibles on behalf of all Google advertisers who had used the service since 2002. In a \$96 million settlement, Google gave advertising credits that were the equivalent of a \$4.50 refund on every \$1,000 spent in its advertising network during the previous four and a quarter year. For this, Google said: “We have said for some time that we believe we manage the problem of invalid clicks very well. We have a large team of expert engineers and analysts devoted to it. By far, most invalid clicks are caught by our automatic filters and discarded *before* they reach an advertiser’s bill. And for the clicks that are not caught in advance, advertisers can notify Google and ask for reimbursement. We investigate those clicks, and if we determine they were invalid, we reimburse advertisers for them. We will continue to do that and believe that this settlement is further proof of our willingness to work together with advertisers to reimburse invalid clicks”. <b>Identify the type of the attack, motive behind it, ways of doing this attack, its implication and way to avoid this.</b>	06	L4	CO3

<b>3.b</b>	What are proxies? How and why attackers use proxies.	04	L2	CO2
<b>4.a</b>	What are social networks? List and explain the advantages of social networks.	06	L3	CO1
<b>4.b</b>	With block diagram explain the Pay-per-Click business model.	04	L3	CO3
<b>5.a</b>	The data shows that India, which was primarily a country that used debit cards, is increasingly using credit cards. India recorded 25 crore credit card-based merchant payments in April 2023, overtaking debit card payments which stood at 22 crore. Demonstrate credit card fraud in detail, by explaining the risks involved in it.	06	L4	CO4
<b>5.b</b>	Whether social media influences cybercrime? Justify your answer with at least three valid reasons.	04	L2	CO5

#### **COURSE OUTCOMES:**

<b>CO1:</b>	Understand the cyber-attacks and their principles for different domains- social media, E-commerce, and digital devices.
<b>CO2:</b>	Analyse vulnerabilities in different domains that the attacker capitalizes for attack.
<b>CO3:</b>	Apply different attacking techniques that make use of vulnerabilities available in various domains.
<b>CO4:</b>	Evaluate methods to cover different vulnerabilities to safeguard the systems against cyber-attacks.
<b>CO5:</b>	Investigate modern tools and technologies available to mitigate cybercrime attacks.

	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>L4</b>	<b>L5</b>	<b>L6</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>
<b>Marks</b>	<b>-</b>	<b>14</b>	<b>24</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>10</b>	<b>10</b>	<b>14</b>	<b>06</b>	<b>10</b>