	RV College of Engineering® Department of Computer Science and Engineering CIE - I: Test Paper		
Course & Code	**INTRODUCTION TO CYBER SECURITY** **(CS114BT)**		**Semester: I**
Date :22 NOV 2023	**Duration:**90 minutes	**Max Marks**: 50 Marks	**Staff :ARA /MH//TP**
USN :	**Name :**		

NOTE: *Answer all the questions*

Sl.no.	Questions	Marks	* BT	*CO
1.a	Differentiate between Cyber Security and Information Security.	5	L1	CO1
1.b	Discuss the CIA TRIAD model.	5	L2	CO2
2.a	A small, rural hospital contracted with an emergency medical group for emergency department (ED) coverage. The group was paid monthly by EFT from the hospital's account to the ED group's account. In June, the hospital received an email invoice from the ED group with instructions to send payment to a new account. The hospital sent the $200,500 payment to the new account on July 10. On July 12, the payment was returned because the new account was frozen. On July 16, the ED group emailed new account information and instructions to the hospital. The hospital sent the $200,500 payment to the new account. In early August, the ED group sent the next monthly invoice by email with instructions to send the funds to another new account. The hospital sent the $206,500 payment on August 13. Identify and explain the type/types of fraud involved in the above incident. Also discuss the preventive measures to be taken by the hospital.	6	L4	CO2
2.b	Explain any four cyber threats briefly.	4	L2	CO2
3.a	Discuss the benefits of Cyber Security.	4	L2	CO1

3.b	With suitable examples, illustrate about the following cyber-crimes (Any four).
	   i. Online gambling
	   ii. Cyber Defamation
	  iii. Cyber stalking
	  iv. Salami attacks
	   v. Email bombing
	  vi. Data diddling
		6	L3	CO2

4.a	A company's security system shouldn't just block a possible IP theft but also raise an alarm when an employee tries to steal sensitive data. Michael was employed at *XYZ*, a biotech company. He left the company and joined its competitor, *ABC*, and took with him trade secrets related to the manufacture of a drug. When employed at *XYZ*, he attempted to email himself secret company information twice but couldn't do it because of the company's security system. He allegedly was successful the third time and he carried that information with him to *ABC*. Discuss the type/types of crime involved in the above incident. Also explain how it could be prevented.	5	L4	CO2
4.b	What is Cyber Security? Demonstrate the different types of Cyber security.	5	L3	CO2
5.a	Define Cyber Law. Discuss the Advantages of Cyber Laws.	5	L2	CO1
5.b	Is it necessary to report the cyber fraud? Justify your answer with suitable real time incident.	5	L3	CO3

COURSE OUTCOMES:

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

	L1	**L2**	**L3**	**L4**	**L5**	**L6**	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	5	18	16	11	-	-	14	31	5		