

USN

--	--	--	--	--	--	--	--	--	--

RV COLLEGE OF ENGINEERING®
 (An Autonomous Institution affiliated to VTU)
 II Semester B. E. Examinations Dec-2023 (Makeup)
 Common to all programs

INTRODUCTION TO CYBER SECURITY (ELECTIVE)

Time: 03 Hours

Maximum Marks: 100

Instructions to candidates:

1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.
2. Answer FIVE full questions from Part B. Question number 2 is compulsory. Choose any one full question from 3 or 4, 5 or 6, 7 or 8 and 9 or 10.

PART-A

1	1.1	Define Cyber Security.	01
	1.2	A group of computers that are controlled by software containing harmful programs, without their user's knowledge is called as _____.	01
	1.3	As per "Criminal Justice Resource Manual (1979)", computer-related crime was defined in the broader meaning as: _____.	01
	1.4	A black-hat is also called as _____ and a white-hat hacker is considered an _____.	01
	1.5	Define cyber stalking.	01
	1.6	_____ refers to sending a large number of emails to the victim resulting in the victim's email account (in case of an individual) or mail servers (in case of a company or an email service provider) crashing.	01
	1.7	_____ in cyber security refers to a technique used to encapsulate one type of protocol within another protocol.	01
	1.8	According to Indian Information Technology Act (ITA) 2000, under the Section 79, cybercafés interprets/referred as _____.	01
	1.9	Social media monitoring using analytics tool depends on data generated from _____ in social media.	02
	1.10	What is meant by micro blogging?	01
	1.11	Give any one social media platform example which supports end to end encryption feature.	01
	1.12	A person sells car through "cars24". Which medium of e-commerce is this?	01
	1.13	List main components of E-commerce.	02
	1.14	USSD stands for _____.	01
	1.15	Rupay card has been launched by _____ and _____ type of card.	02
	1.16	Which backup has shorter restore time?	01
	1.17	As per National Payment Corporation of India guidelines, the UPI transaction limit per day is _____.	01

PART-B

2	a	Distinguish between Cyber-security and information security.	08
	b	Explain different types of Cyber-crime with examples.	08
3	a	Explain about motives of attackers.	06
	b	Compare between active attack and passive attack.	10
OR			
4	a	Discuss in detail about the Botnets.	08
	b	Write short notes on the following: i) Tunneling techniques ii) Antiforensics.	08
5	a	Explain the different types of social networking.	08
	b	Discuss social media and its impact on society.	08
OR			
6	a	Discuss the various pitfalls of social networking.	06
	b	List and explain best practices for the safe social networking.	10
7	a	List and explain the seven critical components of E-commerce security.	08
	b	Differentiate between credit cards and debit cards as modes of digital payments.	08
OR			
8	a	List and explain the various types of e-commerce models.	08
	b	What are the advantages of using digital payments over traditional payment methods?	08
9	a	What is firewall? Explain the working principle of firewall.	08
	b	Discuss the dangers of connecting to open, unsecured Wi-Fi networks	08
OR			
10	a	Analyze the various risks associated with unauthorized or unverified third-party software.	08
	b	Examine the working principle of network segmentation with a neat diagram.	08