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RV COLLEGE OF ENGINEERING®

(An Autonomous Institution affiliated to VTU)

I / II Semester B. E. Fast-Track Examinations Jan-2024

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	Differentiate between port scanning and networking scanning.	02
	1.2	Identify the attack on the following: a) Impersonating someone and posting messages in their name b) Gets a link to website http://hdfcbank.com	02
	1.3	Who are the primary parties in pay-per-click advertising?	02
	1.4	Why hashtags are required? Give an example.	02
	1.5	Identify the types of e-commerce a) OLX b) Swiggy	02
	1.6	Differentiate between malware and a virus.	02
	1.7	Mention any two tools used in active attacks.	02
	1.8	Differentiate between spam email and phishing emails.	02
	1.9	Mention any two types of proxies.	02
	1.10	Illustrate any two Government Acts to prevent cybercrime in India.	02

PART-B

2	a	Mention the important security policy by Government of India for Information Security. Mention any four preventive measures to protect business from cybercrimes.	06
	b	With example explain the various classifications of Cybercrimes.	10
3	a	Explain the various phases in planning cybercrime? Given any four differences between Active and Passive attack.	10
	b	List the preventive measures to take to protect privacy while using a cybercafe.	06
OR			
4	a	Illustrate the classification of social engineering with an example.	08
	b	Why attackers use a proxy? Differentiate between a proxy and a tunnel.	08

5	a	List any five types of social media with an example platform for each.	08
	b	What are the common crimes in social media and how to protect from the crimes?	08
OR			
6	a	List any four advantages and disadvantages of social networking.	08
	b	Illustrate the benefits of social media marketing. Mention some strategy to follow for a successful social media marketing.	08
7	a	Explain the differentiate types of e-commerce models with an example for each.	08
	b	List and explain any four types of digital payments.	08
OR			
8	a	Explain the various threats in e-commerce transactions. What are the measures have secure online transactions?	08
	b	Explain working of <i>UPI</i> and how to protect from <i>UPI</i> frauds?	08
9	a	Assume I am starting my own workspace / office with 5 employees. Identify four tools that has to be installed to protect workspace from threats and give reason.	08
	b	Illustrate how password security policy to be followed for secure strong passwords.	08
OR			
10	a	Illustrate various measures to secure or protect mobile phone from threats.	08
	b	Write a note on Wi-Fi security with atleast four threats and security measures.	08