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RV COLLEGE OF ENGINEERING[®]
 (An Autonomous Institution affiliated to VTU)
 I/II Semester B. E. Examinations Oct-2023
 COMMON TO ALL PROGRAMS
INTRODUCTION TO CYBER SECURITY

*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. In Part B question number 2 is compulsory. Answer any one full question from 3 and 4, 5 and 6, 7 and 8, 9 and 10.

PART-A

1	1.1	Internet uses _____ protocol to communicate between networks and devices.	01
	1.2	_____ is a service on the Internet.	01
	1.3	Internet is fault-tolerant because the resources are _____.	01
	1.4	The hardware components of Internet lies in in which layer of the cyberspace?	01
	1.5	Cyber security is a combination of _____ & _____ to protect cyberspace	02
	1.6	Data retention policy in any organization is a measure to ensure _____ of the information.	01
	1.7	Accuracy and consistency of data defines _____ in CIA triad	01
	1.8	Assume that an hacker disables the operations of a target business or compromise its confidential data unless hacker receive a payment. Identify the type of cybercrime that occurs in the given scenario.	01
	1.9	The All India Institute of Medical Science (AIIMS) in New Delhi was hit by fresh cyber attacks and attempted for malware attack Identify the category of the cybercrime involved.	01
	1.10	An hacker is intended to collect the contact details like mail-id and Mobile number of target person to send malicious attachments and messages. The hacker starts goggling in the internet. The type of attack that occurs is _____.	01
	1.11	Identify the proper tool that works on both Unix and Windows to identify the IP address of the given URL.	01
	1.12	Name any two tools used during active attack.	02
	1.13	Mention any two applications of social networking.	02
	1.14	Airbnb social networking site is for _____.	01
	1.15	A person XYZ is plumber and he has posted his mobile number on the Internet, to provide service to the people in need. Identify the type of E-commerce involved here.	01
	1.16	Mention any two web server software.	02

PART-B

2	a	Discuss how Internet works? List and elaborate any <u>five applications</u> of an Internet. <u>3</u> <u>5</u>	08
	b	Rajesh has lost his money from his bank account by revealing the <u>OTP</u> received to the third party. Recognize the <u>type of crime</u> . <u>2</u> "Cyber security not a <u>one-time process</u> to achieve". Justify this statement with proper reasons. <u>1</u> <u>5</u>	08
3	a	Categorize the different <u>types of cybercrime</u> based on the target of the crime. <u>2 + 8</u>	10
	b	Differentiate between <u>Passive attack</u> and <u>Active attack</u> . OR <u>6M</u>	06
4	a	Elaborate the different categories of vulnerabilities an attacker would try to exploit in order to commit crime through Internet. <u>2 + 8</u>	10
	b	Define the term Reconnaissance. List and explain the most commonly used tools in the reconnaissance phase by the attacker.	06
5	a	With proper justification show, <u>how Social Networking benefits both the business and the consumers</u> . <u>8M</u>	08
	b	Identify any <u>four popular social networks</u> that benefits both consumer and the business organization. <u>4x2=8</u> OR	08
6	a	Propose the factors that can be used to identify the <u>type of social media</u> and based on the same, propose any four types of social media with one example for each type. <u>4x2=8</u>	08
	b	Whether social media influences cybercrime? Justify your answer with at least <u>three valid reasons</u> . <u>8M</u> .	08
7	a	Discuss any eight points that needs to be followed for <u>secured payment</u> using <u>credit/debit card</u> over Internet. <u>8M</u>	08
	b	Define digital payment fraud. Briefly explain how it happens? OR	08
8	a	Explain the <u>general guidelines</u> for <u>generating</u> and <u>setting</u> secure password. <u>8M</u>	08
	b	What are the <u>advantages of using UPI</u> ? Explain the different security measures to be followed to <u>prevent fraud</u> while using <u>UPI</u> payment. <u>4M</u> .	08
9	a	Sort the personal information into categories according to the types of information that are at risk. <u>4x2=8</u>	08
	b	Define digital security. Briefly explain digital security tools. <u>2+6</u> OR	08
10	a	Specify the <u>general steps</u> required to <u>provide physical security</u> to mobile phone. <u>8M</u>	08
	b	Discuss and propose strategies to avoid <u>eavesdropping</u> on mobile phones,	08