Total Pages : 4

Roll No.

MIT (CS)-104/CEGCS-04

(MCA/MSCCS/CEGCS)

(Information System)

3rd/1st Semester Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks: 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates* should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

Section-A

(Long Answer Type Questions) 2×19=38

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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1.	(a)	What is TCP/IP model ? What are the different
		functions of each of the layer in TCP IP model?
		What are the protocols associated with each layer ?
		10
	(b)	How does email work ? 9
2.	(a)	Explain Data Encryption Standard (DES) in detail.
		How AES is used for encryption/decryption ?
		Discuss with example. 16
	(b)	What is digital signature ? How it is useful in e-
		Commerce ? 3
3.	(a)	How does PGP create secure network ? 8
	(b)	How S/MIME is better than MIME ? 6
	(c)	What is a meet-in-the-middle attack ? 5
4.	(a)	What are the three 3 types of penetration test? 6
	(b)	What role does passive information gathering play
		in the footprinting process ? 7
	(c)	We say that SSL/TLS is not really a single
		protocol, but a stack of protocols. Explain. What
		the different protocols in the SSL/TLS stack? 6

- 5. (a) What are key distribution methods in cryptography ?8
 - (b) What can a hacker gain access to through security flaws ?
 - (c) What do you mean by Reconnaissance ? Explain. 3

Section-B

(Short Answer Type Questions) 4×8=32

- *Note* :- Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.
- 1. What is the difference between enumeration and scanning ?
- 2. How will attacker stay in their server to maintain access ?
- 3. What is the most common way for attackers to gain access to a network ?
- 4. Which CIA triad is most important ? What is a realworld example of the CIA triad ?
- 5. How to bypass UAC Windows platform ?

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- 6. What do you understand by Rainbow Tables ?
- 7. What are the two types of cipher that uses symmetric key algorithm for encryption ?
- 8. What are the techniques used by hackers for gathering information ?
