

M. Tech. –III (Computer Engineering) (CBCS – 2015 Course) :

SUMMER - 2019

SUBJECT : ELECTIVE – I : c) CYBER SECURITY

Day : Friday
Date : 17/05/2019

Time : 11.00 AM TO 02.00 PM
Max. Marks : 60

S-2019-3449

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SAME** Answer book.

SECTION – I

Q.1 What do you mean by public key and private key encryption? **(10)**

OR

Explain DNS amplification attack.

Q.2 How tunneling helps in providing security? Explain various tunneling techniques in details. **(10)**

OR

What are the Phishing, Smishing and Vishing attacks? Differentiate these attacks on various aspects.

Q.3 Why pdf files are popular today? How pdf files will be malfunctioned? Explain different methods of analyzing malicious PDF files with PDF analyzers. **(10)**

OR

What are the Brute Force and Dictionary Attacks? Discuss possible solutions to these attacks.

SECTION – II

Q.4 What do you mean by privileged user? How this technique helps us to secure our system? Explain using persistent Software Technology as a case study. **(10)**

OR

What is token kidnapping? What will be effect? Discuss possible solutions.

Q.5 What are the capabilities of memory forensics in cyber security? **(10)**

OR

Discuss memory analysis frame works in cyber security.

Q.6 Explain Nation-state cyber attack mitigation strategies. **(10)**

OR

Why there is a need of expanding address space in IPv6? How IPv6 improved security?

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