BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY QUESTION BANK Unit Test-I

Program: - Computer Technology Program Code: CM

Course Title: - NETWORK AND INFORMATION SECURITY Semester: - sixth

Abbr & Code: - (316317) Semester: - sixth

Chapter 1: INTRODUCTION TO COMPUTER AND INFORMATION SECURITY (CO1)

2 Marks

1. DEFINE: 1) Vulnerability 2) Threats 3) Assets 4) Counter Measures

2. What is VIRUS? List Di erent Phases of Viruses

3. What is Computer Security? List needs of Computer Security (any three).

4. Compare Intruders and Insiders (4 Points)

5. Define: 1) Hotfix 2) Patch

6. What is Information. Give importance of information?

7.Define: 1) Backdoors 2) Trapdoors 3) Sni ing 4) phishing 5) Spoofing, 8.

Define the term cyber crime

4 Marks

1. List di erent types of viruses. Explain any two.

2. List di erent Types of Attacks. Explain DOS Attack

3. Explain CIA Security Model with neat diagram.

4. List criteria for classification of Information. Explain any three.

5. Explain 1) Active Attack 2) Passive Attack.

Chapter 2 – USER AUTHENTICATION AND ACCESS CONTROLS (CO2)

2 Marks

1. Define: 1) Authentication 2) Biometrics 3) Access controls 4) Authorization
2. List and Explain password guessing strategies (Any Two).
3. Explain fingerprint in biometric.
4. Explain voice patterns in biometric.
5. Explain Signature & writing patterns in biometric.

4 Marks

1. Explain Authentication Mechanism.
2. List three types of password attack & Explain any Two.
3. Explain given access control Policies: 1) DAC 2) MAC 3) RBAC 4) ABAC
4. Explain Keystrokes and Handprint in biometrics
5. Describe dumpster diving with its prevention Mechanism

Chapter 3 – CRYPTOGRAPHY (CO3)

2 marks

1. Define: a) Cryptography b) Cryptanalysis c) Encryption d) Decryption
2. Define: a) Plain Text b) Cipher Text c) Cryptology d) Steganography
3. Convert Plain text using Caesar's Cipher method (Shift =3). Plain Text: ABCDEFGHIJKLXYZ

4Marks

1. Explain Caesar's Cipher method and convert given text using Caesar's cipher (Shift =4) Text: "COMPUTER"

2. Apply simple Columnar Transposition Technique for text "WELCOME COME" and Key= ZEBRAS

3. Compare Substitution Cipher and Transposition Cipher (4 points)

4.Convert plain text into cipher text by using simple columnar technique of the following sentence:

Plain text: "WELCOME TO EXAMINATION"

Number of columns: 06

Encryption key: 461253