

Question Bank (I scheme)

Name of Subject: NETWORK AND INFORMATION SECURITY

Unit Test: I

Subject Code: 22620

Course: IF/ CM 6I

Semester: VI

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 Different 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?

4 Marks

1. List different types of viruses. Explain any two.
2. List different Types of Attacks .Explain DDOS 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
4. Explain Keystrokes and Handprint in biometrics

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 =3)
Text: "Come home tomorrow"
- 2) Apply simple Columnar Transposition Technique for text "WELCOME COME" and
Key= ZEBRAS
- 3) Compare Substitution Cipher and Transposition Cipher (4 points)