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)