BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY
QUESTION BANK
Unit Test-I

Program: - Information Technology   Program Code:- IF

Course Title: - Information Security   Semester: - Fourth

Course Abbr &Code:- INS (314319)   Scheme: K

Chapter 1: INTRODUCTION TO 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 Information Security? List needs of Information Security (any three).

4. Compare Intruders and Insiders (4 Points)

5. Define: 1) Spyware 2) Adware

6. What is Information .Give importance of information?

7. Difference between Worm and Virus.

8. Define: 1) Ransomware 2) Logic Bombs

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. Difference between Active Attack and 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. What is Authorization. List two goals of authorization.

4 Marks

1. Explain Multi Factor Authentication(MFA) with example.

2. List three types of password attack & Explain any Two.

3. Explain access control Policies: 1) DAC   2) MAC

4. Explain Retina Scan 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. Define: 1) Symmetric Cryptography 2) Asymmetric Cryptography

4Marks

1) Differentiate Symmetric Cryptography and Asymmetric Cryptography (any 8 points).

2) Explain working and key management of symmetric cryptography.

3) Explain Public key distribution in Asymmetric Cryptography with diagram.