

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

QUESTION BANK

Unit Test-II

Program: - Computer Technology

Program Code: -6K

Course Title: - Computer Technology

Semester: - Sixth

Course Abbr & Code: - NIS (316317)

Scheme: K

Chapter 3 –CRYPTOGRAPHY (CO3)

2 Marks

1. Differentiate between symmetric and asymmetric key cryptography (any four points)

4 Marks

1. What is Steganography? How it works? Explain in detail.
2. Describe vernal cipher (one-time pad) in detail

Chapter 4 –ENCRYPTION ALGORITHMS (CO4)

2 Marks

1. Define firewall. Enlist type of firewalls
2. What is Encryption Algorithm?
3. List the features of Hash Functions.
4. What are the types of MITM Attack?
5. What is digital Signature?

4 Marks

1. What is DES algorithm? How it works?
2. What is RSA Algorithm? How it works? Explain with example.
3. Describe Diffie-Hellman key exchange algorithm in detail.
4. State the use of Digital Certificates. Describe the steps for digital certificate creation

5. What is digital signature? Explain its working with diagram.
6. Describe packet filter router firewall with neat diagram.
7. Describe the DMZ with suitable Example
8. Differentiate between MD5 and SHA (minimum 4 points).
9. What are the limitations of firewall.?

Chapter 5 –NETWORK AND DATABASE SECURITY (CO5)

2 Marks

1. What is Honeypot?
2. Define: 1) AH and ESP with respect to IP security 2) IDS and Enlist its type
3. Explain email security techniques.
4. What is Database security?
5. What is Cloud security?

4 Marks

1. Describe the term Kerberos with its working
2. With the help of diagram explain host-based and network-based IDSs. Also compare them.
3. Describe SMTP in e-mail security.
4. Explain terms i) PGP ii) S/MIME iii) PEM
5. Enlist Cloud Service model with advantages and disadvantages
6. Enlist cloud deployment models with advantages and disadvantages
7. Describe Database security.
8. Differentiate between Firewall and IDS