

SECTION-B

2. Discuss the few vulnerabilities present in Internet architecture.
3. What is DES? Explain the various modes in which DES can be used.
4. Discuss the difference between MD5 and SHA algorithms
5. Discuss the different steps taken by PGP to create a secure email at sender site.
6. What is the difference between software and hardware Firewall? How does a Firewall work?

SECTION-C

7. List out the elements of cryptosystems and explain different types of cipher techniques with the help of suitable examples.
8. Explain the working of RSA algorithm with an example of two prime numbers : $p = 11$ and $q = 13$ and $M = 5$. Find Cipher text C and also M for decryption.
9. **Write a Short note on :**
 - a. Diffie-Hellman key exchange
 - b. Elliptic Curve Cryptography.

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