(Time: 3 Hours)   Marks: 80

Note:

1. Question No.1 is compulsory.
2. Attempt any 3 out of the remaining questions.

Q.1 (a) Consider an online Voting System. People will cast their votes through the internet. For this system identify vulnerability, threat and attack.   (05)

(b) Differentiate between Multilevel and Multilateral security with the help of example.   (05)

(c) Explain different types of malicious attacks.   (05)

(d) Differentiate between SSL and IP Sec protocols   (05)

Q.2 (a) Explain Needham Schroeder Authentication Protocol.   (10)

(b) What is Digital Signature? Explain how it is created at the sender end and retrieved at receiver end. Differentiate digital signature from digital certificate.   (10)

Q.3 (a) Explain non malicious program errors with the help of examples.   (10)

(b) What is Digital Right management? Explain DRM in Real world.   (10)

Q.4 (a) Explain the role of Firewall in securing a network. Describe different types of Firewall   (10)

(b) Explain secure Email and S/MIME.   (10)

Q.5 Explain the technique behind following attacks: (20)

(a) ARP spoofing

(b) Packet Sniffing

(c) Session Hijacking

(d) Cross-site request forgery

Q.6 Write Short note on: (20)

(a) Windows Vulnerabilities

(b) Access control policies

(c) Linearization attack

(d) Distributed Denial of Service attack

_____

MD-Con. 9490 -15.