

Time: 3 Hour

[Total Marks:80]

- N.B:**
1. Question no. 1 is Compulsory.
 2. Solve any THREE from Question No. 2 to 6 .
 3. Draw neat well labelled diagram wherever necessary.

Q.1 Answer any four 20 M

- a) How does rootkit work? Explain how the system can be Protected against rootkit.
- b) Discuss security strategies for mobile devices.
- c) Describe various passwords cracking attacks.
- d) What is a DNS attack, and how does it affect internet users?
- e) Explain NIST visual model of cloud computing.

Q.2 a) Elaborate different access control policies with the help of example. (10)

- b) Explain risk Management and with the help of example state the methods of identifying and assessing risk management. (10)**

Q.3 a) Illustrate VPN and different security protocols used in VPN. (10)

- b) What is a buffer overflow, and how can attackers use it to break into a system? (10)**

Q.4 a) Explain Wireless Intrusion detection system. (10)

- b) Explain session Hijacking and Various techniques that could be used for Hijacking sessions. (10)**

Q.5 a) Explain how Cloud Identity and Access Management (IAM) systems work to ensure secure access to cloud resources. (10)

- b) Describe various database integrity protection mechanisms. (10)**

Q.6 a) What are cookies? Justify its significance in web security. (10)

- b) Describe Memory and File Protection mechanisms. (10)**
