

- N.B. :** 1) Question No 1 is Compulsory.  
2) Attempt any three questions out of the remaining five.  
3) All questions carry equal marks.  
4) Assume suitable data, if required, and state it clearly.

**Q.1) Answer any Four questions. Each question carries five marks. [20 M]**

- A) Explain design issues of infrastructure with proper description.
- B) Compare DAC, MAC, RBAC functions.
- C) Explain Buffer overflow
- D) What are the different database security requirements?
- E) Write a short note on VPN

**Q.2 Answer the following**

- A) Explain how the infrastructure management is carried out by considering customer and safety requirements **[10 M]**
- B) List of various defense strategies used to avoid cyber-attacks and explanation of strategies. **[10 M]**

**Q.3 Answer the following**

- A) Explain various authentication methods with an example each. **[10 M]**
- B) Design system security planning for different Operating Systems. **[10 M]**

**Q.4 Solve the following**

- A) Explain various different wireless network attacks. **[10 M]**
- B) Explain in detail the various measures require for the reliability and integrity of sensitive databases. **[10 M]**

**Q.5 Answer the following**

- A) Explain Transport Protocol and Data Formats, **[10 M]**
- B) What is Cookie Poisoning and how does it work? **[10 M]**

**Q.6 Solve the following**

- A) Differentiate between WEP & WPA protocols **[10 M]**
- B) Explain Cross-Site Request Forgery **[10 M]**