

Duration: 3 hrs

[Max Marks: 80]

- 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]