

**Duration: 3hrs**

**[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 the challenges in the IT security plan.
- B Compare TACACS, and TACACS+.
- C Explain a Buffer overflow vulnerability with the example.
- D List out various types of Malwares.
- E Brief the four levels of addresses used in TCP/IP protocols.

**Q.2 Answer the following.**

- A Explain in detail the basic steps to secure the operating system. [10 M]
- B Explain Cross-Site Scripting with a suitable example. [10 M]

**Q.3 Answer the following.**

- A Explain in detail JavaScript Hijacking with a suitable example. [10 M]
- B Compare WEP and WPA Protocols used in Wireless security. Which [10 M] protocol is better? Justify your answer.

**Q. 4 Answer the following.**

- A Explain the design Issues of IT Organizations and IT Infrastructure. [10 M]
- B Describe the various measures required for the reliability and integrity of [10 M] sensitive databases.

**Q. 5 Answer the following.**

- A List of different types of Authentication Methods and explain any two of [10 M] them.
- B What are the different wireless network attacks? How it should be [10 M] protected?

**Q. 6 Answer the following.**

- A Differentiate OSI & TCP/IP model. Explain different networking [10 M] components.
- B Explain the Inference channel attack with a suitable diagram. [10 M]