

TE Sem V C<sup>1</sup> scheme Summer 2028

Duration: 3hrs

[Max Marks:80]

N.B.: (1) Question No 1 is Compulsory.

EXTC

(2) Attempt any three questions out of the remaining five.

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(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 IP Addressing Scheme.
- B Explain different authentication methods.
- C Explain TCP/IP model with neat diagram.
- D Write a short note on anyone authentication and access control system.
- E Write a short note on windows OS Security.

**Q.2 Answer the following.**

- A Explain the Bell La Padula model in detail with a suitable example. [10 M]
- B Explain challenges in IT infrastructure management. [10 M]

**Q.3 Answer the following.**

- A Explain techniques for database security in detail. [10 M]
- B What are the design issues IT organization to build IT infrastructure? [10 M]

**Q.4 Answer the following.**

- A Enlist different types of software vulnerabilities, explaining cross site scripting attack in details [10 M]
- B Explain VPN with neat diagram. [10 M]

**Q.5 Answer the following.**

- A Explain SQL injection attack with a scenario. [10 M]
- B Explain techniques for securing website in detail. [10 M]

**Q.6 Answer the following.**

- A Compare WEP and WPA protocol. [10 M]
- B Explain RADIUS access control technique in detail. [10 M]

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