

CIA Triad

(Foundation of Security)

Confidentiality

- Ensures that sensitive information is only accessible to authorized individuals.
- Protects against unauthorized disclosure of data.
- Using strong passwords and encryption so only you can access your online banking account.

Integrity

- Guarantees that information remains accurate, consistent, and unaltered by unauthorized users.
- Prevents unauthorized modification of data.
- A medical record system ensures that no one can change a patient's prescription without doctor approval.

Availability

- Ensures that systems, applications, and data are accessible when needed by authorized users.
- Protects against downtime and service disruption.
- Online banking remaining available 24/7 even during high traffic or cyber-attacks.