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ICS Lab A7

* FAQ's

Q1) What is Digital Signature? What are the pros & cons?

Ans Digital Signature is a cryptographic technique used to verify the authenticity & integrity of digital messages or documents. It involves the use of private key to sign a message, & the recipient uses the sender's public key to verify the signature.

* Pros:

- 1) Authentication
- 2) Integrity
- 3) Non-repudiation
- 4) Efficiency
- 5) Security

* Cons

- 1) Key Management
- 2) Dependency on Infrastructure
- 3) Legal Recognition
- 4) Initial Setup Cost
- 5) Technological Barriers.

Q2) What is a Digital Signature Certificate (DSC)?

Ans A Digital Signature Certificate (DSC) is an electronic document that verifies the identity of the holder & is used to digitally sign electronic information. It contains the user's public key, information about the key holder, & the digital signature issued by Certifying Authority (CA). DSCs are crucial for secure online transactions, document signing; & ensuring the authenticity of digital communication.

Q3) Are Digital Signature Certificates (DSC)s legally valid in India?

Ans Yes, Digital Signature Certificates are legally valid in India. They are recognized & regulated under the IT Act, 2008, & their use is mandated for various online transactions & filings, including income tax returns & company registrations.

11/12/23