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12. a) What do you mean by AES ? Diagrammatically illustrate the structure of AES and describe the steps in AES encryption process with example.

(OR)

b) With a neat sketch explain the Elliptic curve cryptography with an example.

13. a) How Hash function algorithm is designed ? Explain their features and properties.

(OR)

b) With a neat diagram, explain the MD5 processing of a single 512 bit block.

14. a) Explain briefly about the architecture and certification mechanisms in Kerberos and X.509.

(OR)

b) How does screened host architecture for firewalls differ from screened subnet firewall architecture ? Which offers more security for information assets on trusted network ? Explain with neat sketch.

15. a) Illustrate how PGP encryption is implemented through a suitable diagram.

(OR)

b) Write short notes on the following :

a) Public Key Infrastructure

(8)

b) Secure Electronic Transaction

(8)

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