1T00143 - M.C.A. (SEM-III) (Choice Based) / 56303 - Information security

Q.P. code: 40273

Total Marks: 80

(3 Hours)

N.B. (1) Question	No. 1	is	compulsory.
- 10 		, Question	110. 1	10	Company.

- (2) Attempt any three out of remaining questions.
- (3) Figures to the right in parenthesis indicate full marks.
- Q.1 (a) Define Network security. Explain different types of attacks in network [10] security.
 - (b) What is cryptography? Differentiate between private key and public [10] key cryptography.
- Q.2 (a) What is Hash? Discuss briefly HMAC. [10]
 - (b) What are digital certificates? Explain the stepwise process of certificate generation. [10]
- Q.3 (a) Explain RSA algorithm with an example. [10]
 - (b) Explain mutual authentication and reflection attack with the help of an [10] example. Suggest one method for fixing it.
- Q.4 (a) Explain working of KDC and multi domain KDC. [10]
 - (b) Give overview of DES along with problems and variations in DES. [10]
- Q.5 (a) Explain firewalls. How is a circuit gateway different from an application gateway?
 - (b) Explain WEP Authentication. Illustrate data protection in TKIP. [10]
- Q.6 Write short Notes on: (Any four) [20]
 - a) Database Encryption
 - b) Digital Signatures
 - c) SET participants
 - d) PGP
 - e) Web services security
