

Even Semester Examination 2017-18

BCA (COMPUTER APPLICATION) (SEMESTER-VI)

NETWORK SECURITY

Time: 03:00 Hours

Max Marks : 70

All questions are compulsory

(2X7=14)

Q.-1 Attempt any two of the following:

- (a) Explain Web Security? What is Secure Electronic Transaction?
- (b) Differentiate Secure Socket layer (SSL) and Transport Layer Security (TLS).
- (c) Explain RC5 and CAST128 in detail?

(2x7=14)

Q.-2 Attempt any two of the following:

- (a) What do you understand by E-mail Security? Explain SIME and MIME
- (b) Explain the encryption, decryption and key generation in RSA.
- (c) Write short notes on Key distribution Center.

(2x7= 14)

Q.-3 Attempt any two of the following:

- (a) Explain packet firewall and circuit level firewall.
- (b) Differentiate between Hash code and Message Authentication Code (MAC)
- (c) What are the requirements of a Message Authentication Code (MAC)?

(2x7 = 14)

Q.-4 Attempt any two of the following:

- (a) Differentiate Between MD5 and SHA-1.
- (b) Explain the concept of Digital Signature in details?
- (c) Describes Diffie-Hellman key exchange algorithm

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Q.-5 Attempt any two of the following:

(2x7=14)

- (a) Differentiate between Intrusion Detection System and Firewall? ✓
- (b) Explain the working principle of differential power attacks (DPA) and show how it can be used to attack cryptosystems?
- (c) What is Message digest? Explain in detail. ✓

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