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Total No. of Questions: 07

BCA (Only 2015 Batch) (Sem. – 6) INFORMATION SECURITY

M Code: 75014 Subject Code: BSBC-604 Paper ID: [75014]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION A

- 1. a) What is a digital signature?
 - b) What is denial service attack?
 - c) What is ECB mode?
 - d) What is the procedure for key generation using RSA?
 - e) What is the purpose and the use of a KDC?
 - f) What is non-repudiation?
 - g) What is session key?
 - h) What is avalanche effect?
 - i) What is masquerading?
 - i) What are honey pots?

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SECTION B

- 2. What are Attacks and Threats? Explain about various mechanisms by which organizations can protect from them.
- 3. What are the different block cipher modes of operation of DES? How does triple DES works?
- 4. What are the various Security services that a Cryptographic package has to provide?
- 5. What is Cryptography? Explain the key elements of a Cryptographic system. Write about Conventional and Public-key cryptographic methods available.
- 6. Explain
 - a) Electronic Mail Security
 - b) Web Security
- 7. a) What is Authentication? Explain in detail how password-based and addressed-based authentication services work.
 - c) Explain Relationship between Digital Signature and Digital Certificate.

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