

## CE4-R3: NETWORK SECURITY & CRYPTOGRAPHY

### NOTE:

1. Answer question 1 and any FOUR questions from 2 to 7.
2. Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours

Total Marks: 100

1. Critically comment on the following:
  - a) Hybrid crypto system is preferred over symmetric and public key encryptions systems.
  - b) Message authentication using Hash function.
  - c) Public key authentication in the growth of e-commerce.
  - d) Three-way handshake is a security threat.
  - e) Security policy of any organization.
  - f) Digital signature generation in DSS.
  - g) Chinese Remainder Theorem and its application.

(7x4)
  
2.
  - a) What is a replay attack? How can this be prevented?
  - b) Describe a Brute Force attack on a digitally signed message. Discuss the complexity of the brute force attack. How can the complexity of the attack be increased without changing the size of the key?
  - c) Compare the distinct features of SHA-1 and MD-5 algorithms.

(6+6+6)
  
3.
  - a) Explain the basics of Encrypted Key Exchange (EKE) protocol. How is the EKE protocol implemented with the Diffie-Hellman protocol? Describe the disadvantages of the EKE protocol and explain, how the augmented EKD (A-EKE) protocol can be used to overcome these disadvantages.
  - b) Kerberos uses three different kinds of secret keys: the login key, the ticket-granting key and session key. Explain the need for each of these keys. In particular, how the security offered by Kerberos is weakened if we made use of just the login key or just the session key and login key, instead of the three keys.

(10+8)
  
4.
  - a) What types of attacks are addressed by message authentication? What are some approaches to produce message authentication and what is a message authentication code?
  - b) What are the general guidelines of an efficient procedure for prime number generation?
  - c) In RSA-public key encryption scheme, each user has a public key,  $p$  and a private key,  $r$ . Suppose Sachin leaks his private key. Instead of generating a new modulus, he decides to generate a new public and a new private key. Is this safe? Justify.

(6+6+6)

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