

BCA-602

B. C. A. (Sixth Semester) EXAMINATION, 2014

Paper Second

NETWORK SECURITY

Time : Three Hours]

[Maximum Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Describe the general model of Network Security with the help of a neat diagram.
(b) Explain the various types of Cryptographic functions. Give relevant examples for each function.
2. (a) With the help of a diagram, explain Data Encryption Standard (DES).
(b) Illustrate the advantages of triple (DES).
3. (a) Explain the architecture of Kerberos authentication server in detail.
(b) How is the Blowfish Encryption Algorithm implemented? Explain.

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4. (a) What is Digital Signature ? How is it implemented, explain in detail.
(b) What is Hash Function ? Explain in detail about the secure Hash algorithm and the Message Digest algorithm.
5. (a) Why is the security of web important ? Explain with the help of examples.
(b) What is Firewall ? Explain *three* different types of Firewalls with the help of diagram.
6. (a) An electronic mail system can be used to leak information. Explain how the leakage takes place, how it can be identified and what measures are taken to further prevent leakage in future ?
(b) Explain in detail Intruders and Twisted systems .
7. Write short notes on any *four* of the following :
 - (a) IP security
 - (b) PGP
 - (c) Security Policy on e-Mail security
 - (d) DDS
 - (e) Kerberos X-509
 - (f) RCS