

Code: R7411206

B.Tech IV Year I Semester (R07) Supplementary Examinations December 2015

INFORMATION SECURITY

(Common to IT & CSS)

(For 2008 regular admitted batch only)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 Write briefly about the following:
 - (a) Security attacks.
 - (b) Buffer overflow attacks.
 - (c) ARP attacks.
 - (d) Format string vulnerabilities.
- 2
 - (a) How is block cipher different from stream cipher?
 - (b) Draw the overall structure of AES and explain.
- 3
 - (a) Explain the steps for public key encryption.
 - (b) Explain how Kerberos supports inter realm authentication.
- 4
 - (a) Give the general format of PGP messages and explain each field.
 - (b) Summarize the cryptographic algorithms in S/MIME.
- 5
 - (a) Explain how authentication header guards against the replay attack.
 - (b) List the application of IPSec. Also mention IPSec routing applications.
- 6
 - (a) What are the different ways of implementing web security? Mention their advantages.
 - (b) Mention the two levels of alerts. List the alerts under them.
- 7
 - (a) What is MIB context? What are the key characteristics of contexts?
 - (b) Explain in detail virus structure. Explain how a compression virus propagates.
- 8
 - (a) Explain the main actions of a packet filter.
 - (b) Explain the concept of reference monitor in detail with a neat sketch.
