

B.Tech IV Year II Semester (R09) Supplementary Examinations April 2017

INFORMATION SECURITY

(Common to ECE & ECC)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain the characteristics of computer intrusion.
(b) Explain in detail One-Time passwords.
- 2 (a) What is a Trapdoor? Give examples. What are its causes?
(b) Explain in detail the programming flaws that involve synchronization.
- 3 (a) Distinguish between symmetric key and asymmetric key crypto systems.
(b) List and briefly explain three uses of public-key cryptosystem.
- 4 (a) Explain the proposal by Needham and Schroeder for secret key distribution.
(b) Explain how digital signatures are different from message authentication.
- 5 What is PGP? Explain briefly about its working principles.
- 6 (a) Discuss the scope of ESP encryption and authentication in both IPV4 and IPV6.
(b) Explain about transport adjacency and transport tunnel bundle.
- 7 List and explain the techniques of web security.
- 8 (a) What is the need of virus counter measures?
(b) What are the types of firewall?
