

Code: 9A05709

B.Tech IV Year II Semester (R09) Advanced Supplementary Examinations August 2014

INFORMATION SECURITY

(Electronics & Communication Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 What makes a secure encryption algorithm? Explain.
- 2 (a) What are the truths and misconception about viruses? Explain.
(b) Explain how viruses attach itself to a program.
- 3 (a) Explain simple hash function using bitwise XOR.
(b) Discuss at length public-key cryptography concepts.
- 4 Discuss in detail about digital signatures.
- 5 Compare and contrast S-MIME and PGP protocols.
- 6 Discuss benefits of IPSec as a security protocol.
- 7 List and explain the techniques of web security.
- 8 (a) Draw the figure showing VACM logic and explain.
(b) The encryption scheme used for UNIX passwords is one way. It is not possible to reverse it. Therefore, would it be accurate to say that this is, in fact, a hash code rather than an encryption of the password.
