

Code: 9A05709

R09

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017

INFORMATION SECURITY

(Common to CSE & CSS)

Time: 3 hours Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1 (a) What is meant by security attack? Explain various types of security attacks.
 - (b) Explain about substitution ciphers in detail with an example.
- 2 (a) What is the structure of virus?
 - (b) Write short notes on non malicious program errors.
- 3 (a) Explain the process involved in message digest generation and processing of single block in SHA-512.
 - (b) What are the approaches of message authentication? Explain them.
- 4 (a) Distinguish between direct and arbitrated digital signature.
 - (b) Write short notes on authentication protocols.
- 5 (a) Write and explain client/server authentication exchange service in Kerberos.
 - (b) What is S/MIME? Explain S/MIME in detail.
- 6 Draw and discuss the architecture of IP security.
- 7 Explain in detail the operation of secure socket layer in detail.
- 8 Write short notes on:
 - (a) Intrusion detection.
 - (b) Trusted system.
