B.Tech IV Year II Semester (R09) Regular & Supplementary Examinations April 2016

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 four classes of threats.
 - (b) Differentiate between symmetric cryptography and asymmetric cryptography.
- Write notes on the following:
 - (a) Boot-sector viruses.
 - (b) Internet worms.
 - (c) Brian viruses.
- 3 (a) Discuss the basic uses of Message Authentication Code.
 - (b) Explain key distribution using Public key Cryptography.
- 4 (a) Explain the Arbitrated Digital Signature Technique where the arbiter does not sees the message and that uses conventional cryptography.
 - (b) Explain the Arbitrated Digital Signature Technique where the arbiter does not sees the message and that uses public-key encryption.
- 5 (a) What are the services provided by PGP services?
 - (b) Explain the reasons for using PGP.
 - (c) Why E-mail compatibility function in PGP needed?
- 6 (a) Discuss the purpose of SA selectors?
 - (b) Enumerate on the five default ISAKMP exchange types.
- 7 Explain in detail about SSL record protocol operation.
- 8 (a) What is a firewall? Explain the capabilities that are within the scope of a firewall?
 - (b) What are the measures that may be used for intrusion detection?
