Code No: 07A60503 m R07

Set No. 4

III B.Tech II Semester Regular/Supplementary Examinations, May 2010 Information Security Computer Science And Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. Explain the block cipher modes of operation? [16]
- 2. (a) List and explain the SET requirements?
 - (b) Explain the operations of SSL Record Protocol? [8+8]
- 3. (a) Explain the principles and limitations of a firewall?
 - (b) Statistical anomaly detection
 - (c) Application-level gateway. [8+4+4]
- 4. (a) Explain the buffer overflow attack with an example?
 - (b) Explain the format string vulnerability? [8+8]
- 5. (a) Explain the anti-replay mechanism in IPSec?
 - (b) Explain how Diffie-Hellman protocol is vulnerable to man-in-the-middle attack? How is rectified in Oakley protocol? [8+8]
- 6. (a) What are three broad categories of application of public key cryptosystems?
 - (b) i. What requirements must a public key cryptosystem fulfil to be a secure algorithm?
 - ii. Describe the approaches of key distribution in public key cryptosystems? [8+8]
- 7. (a) List and explain the PGP services?
 - (b) Draw and explain the transmission and reception of PGP messages? [8+8]
- 8. (a) Describe the main characteristics of computer virus.
 - (b) Write short note on intruder? [8+8]
